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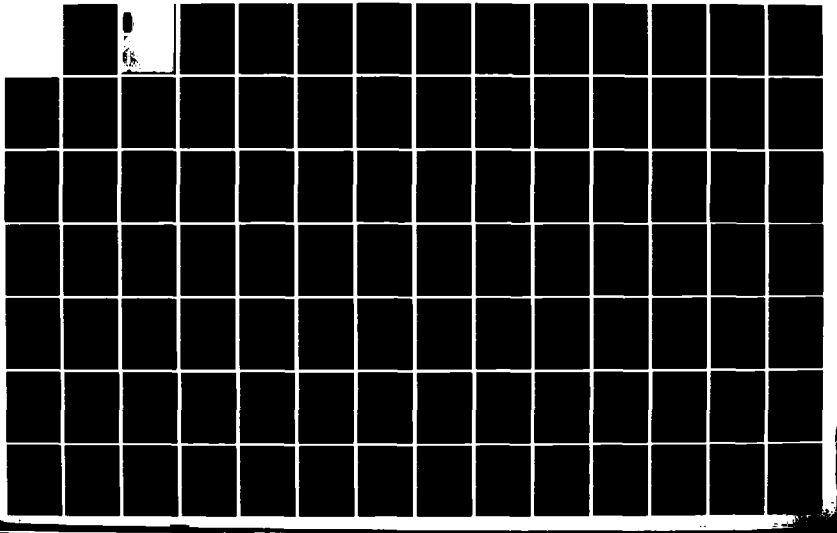

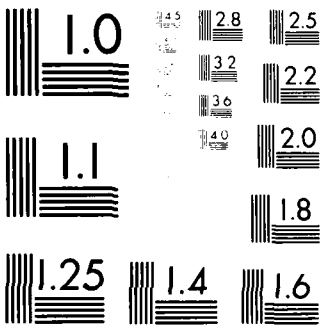

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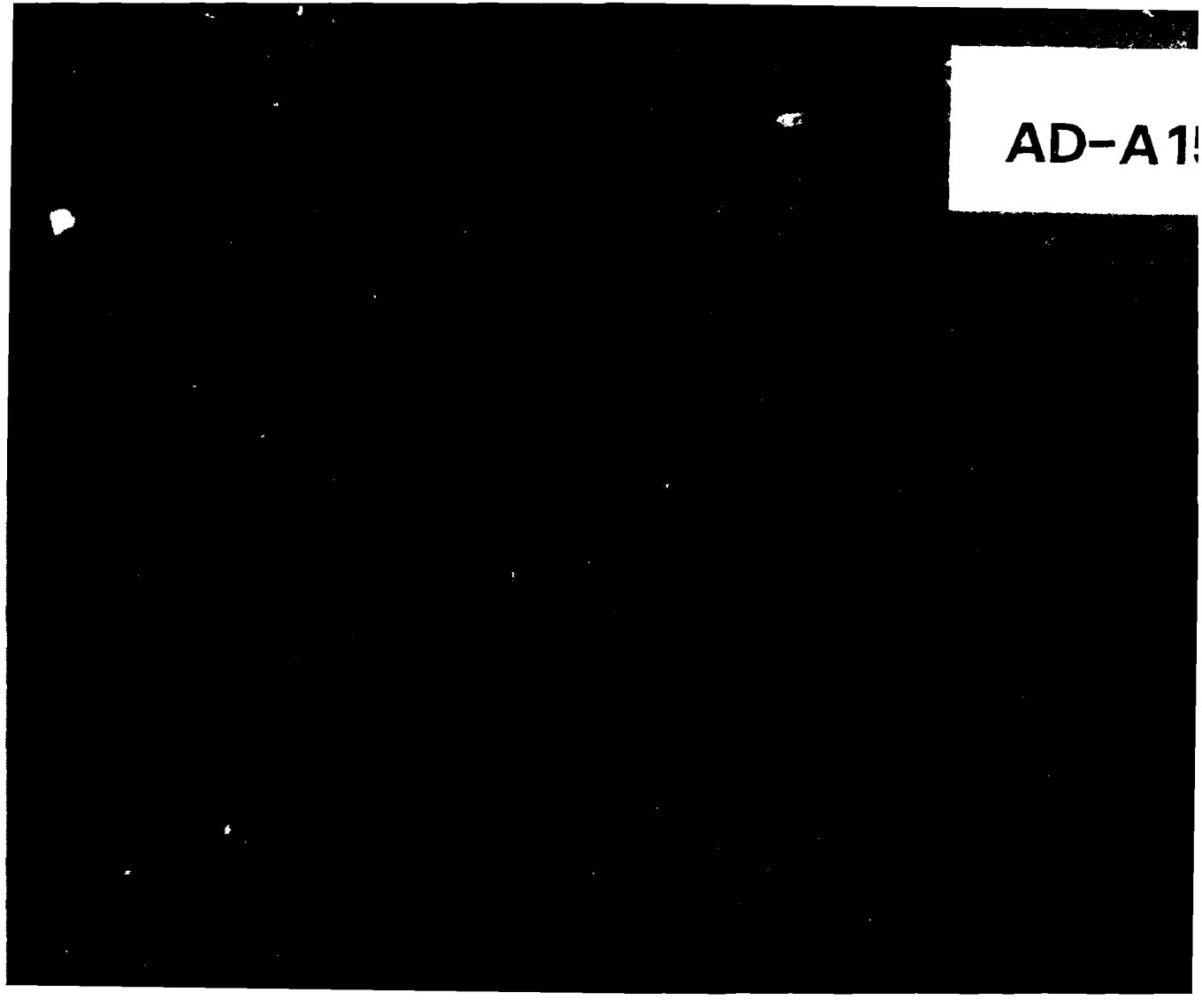
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A set of documentation has been reissued for the user interface program (Request Processor) for the Effective Date (E-DATE) Model. The Request Processor implements a set of 14 screens which are used to prompt the user for the necessary information to operate the model in its several modes of use. This documentation supplements the documentation prepared for the model proper.

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(NOT USED)

DOCUMENTATION
CAA-D-85-7

EFFECTIVE DATE (E-DATE) MODEL DOCUMENTATION REQUEST PROCESSOR

MAY 1985

PREPARED BY
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AND
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FOREWORD

This addition to the Effective Date (E-DATE) Model documentation (CAA-D-85-6) has been prepared to record the development of an adjunct program to the E-DATE Model, designated the Request Processor. The Request Processor is a stand-alone, interactive program which uses computer-generated screens to guide the use of the model through the steps necessary for control and operation of the model. The processor development was included as a model enhancement task to provide the model with a "user friendly" interface.

The Request Processor is sufficiently different from the other processors in its purpose, design, concept, and implementation (in COBOL) to warrant documentation as a separate entity. This publication has been prepared to include each of the documentation types provided for the basic model, namely:

- Functional Description - Part I
- User's Manual - Part II
- Computer Operation Manual - Part III
- Program Maintenance Manual - Part IV

Each part includes the topics appropriate to the documentation type prescribed by the DOD Automation Data Systems Documentation Standards (DOD 7935.1-S).

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SECTION 2. SYSTEM SUMMARY

2.1. System Application

The E-DATE Model provides information to logistics staff officers (users) on the equipment readiness of units based on (TAEDP) projected equipment fills. With this information, the user can form a judgment as to the adequacy of the fill with respect to both the capacity of an individual unit to carry out its mission and the capacity of groups of units tc contribute to force readiness.

The Request Processor facilitates this process by prompting the user for the necessary inputs for carrying out a particular run and then responding to a request to start the run.

2.2. System Operation

The Request Processor is a standalone program which calls custom designed, computer-generated full screens. These screens are designed to prompt the user for selected groups of information, check the validity of the entries, and then pass the information to a file for subsequent access by the E-DATE Model.

2.3. System Configuration

The Request Processor is resident on the Sperry 1100/62 Timesharing Multiprocessing System at LEA. The processor was developed with the 38R5A level of the EXEC and 5R2C level of the COBOL compiler. The processor should remain compatible with later releases of the system software.

2.3.1. System Organization

The utility program generates a set of 14 screens (Figure II-2-1).

a. The MENU Screen (#1) is the master directory to the other screens. It allows the user to select among three separate aspects of E-DATE Model operation, namely:

    ORIENTATION TO MODEL
    MODEL DATA PREPARATION
    MODEL OPERATION

b. The ORIENTATION TO MODEL Screen (#2) provides the user with a multiple page summary of the E-DATE Model.

PART II - USER'S MANUAL

SECTION 1. GENERAL DESCRIPTION

1.1. Purpose of the User's Manual

This User's Manual for the Request Processor provides user non-ADP personnel with the information necessary to effectively utilize the model.

1.2. Project References

a. Effective Date (E-DATE) Model Documentation, CAA-D-85-6, US Army Concepts Analysis Agency, Bethesda, MD, May 1985.

(1) Volume I - Functional Description

(2) Volume II - User's Manual

(3) Volume III - Computer Operation Manual

(4) Volume IV - Program Maintenance Manual

b. Management of MTOE Effective Dates Based on Equipment Availability (MTO Dates), CAA-SR-83-3, US Army Concepts Analysis Agency, Bethesda, MD, July 1983.

c. Effective Date (E-DATE) Model Enhancement, CAA-SR-84-17, US Army Concepts Analysis Agency, Bethesda, MD, July 1984.

1.3. Terms and Abbreviations

See Glossary.

1.4. Security and Privacy

Not applicable.

SECTION 6. SYSTEM DEVELOPMENT PLAN

Not applicable.

SECTION 5. COST FACTORS

Not applicable.

SECTION 4. ENVIRONMENT

4.1. Equipment Environment

The Request Processor is resident on the Sperry 1100/62 Timesharing Multiprocessing System at the Logistics Evaluation Agency (LEA). Off-site access to the LEA system is provided through terminal devices including the UTS 20 and associated controller located in the ODCSLOG work area in the Pentagon.

4.2. Support Software Environment

The Request Processor requires the availability of the Sperry Display Processing System to enable generation of the full screen displays. In addition, the processor requires the availability of the Sperry COBOL compiler, collector, and associated libraries in the event that any changes to the processor code are to be made.

4.3. Interface

Not applicable

4.4. Security and Privacy

4.4.1. Security

The Request Processor code is UNCLASSIFIED. The files accessed and generated by the processor are at most CONFIDENTIAL. However, these files are both generated and employed internal to the computer system and are totally transparent to the user. See Part III - Computer Operation Manual, paragraph 2.4., for the identification of these files.

4.4.2. Privacy

Not applicable.

3.3. Inputs-Outputs

3.3.1. System Performance

a. Inputs

Screen Inputs

The Request Processor generates a total of 14 screens. All but one require the user to either make a selection or insert values.

Mass Storage Inputs

The Request Processor accesses mass storage files to extract:

- Runstream commands from prototype runstreams
- Previously generated run control parameter files for update purposes

b. Outputs

The Request Processor generates mass storage files containing:

- Run control parameters subsequently accessed by the E-DATE Model during run execution
- Runstream files for execution

c. Limitations

Not applicable.

3.4. Data Characteristics

Both the input data and output data files of the processor are on mass storage files.

3.5. Failure Contingencies

Refer to Part II - User's Manual, paragraph 3.8., for a discussion of failure contingencies.

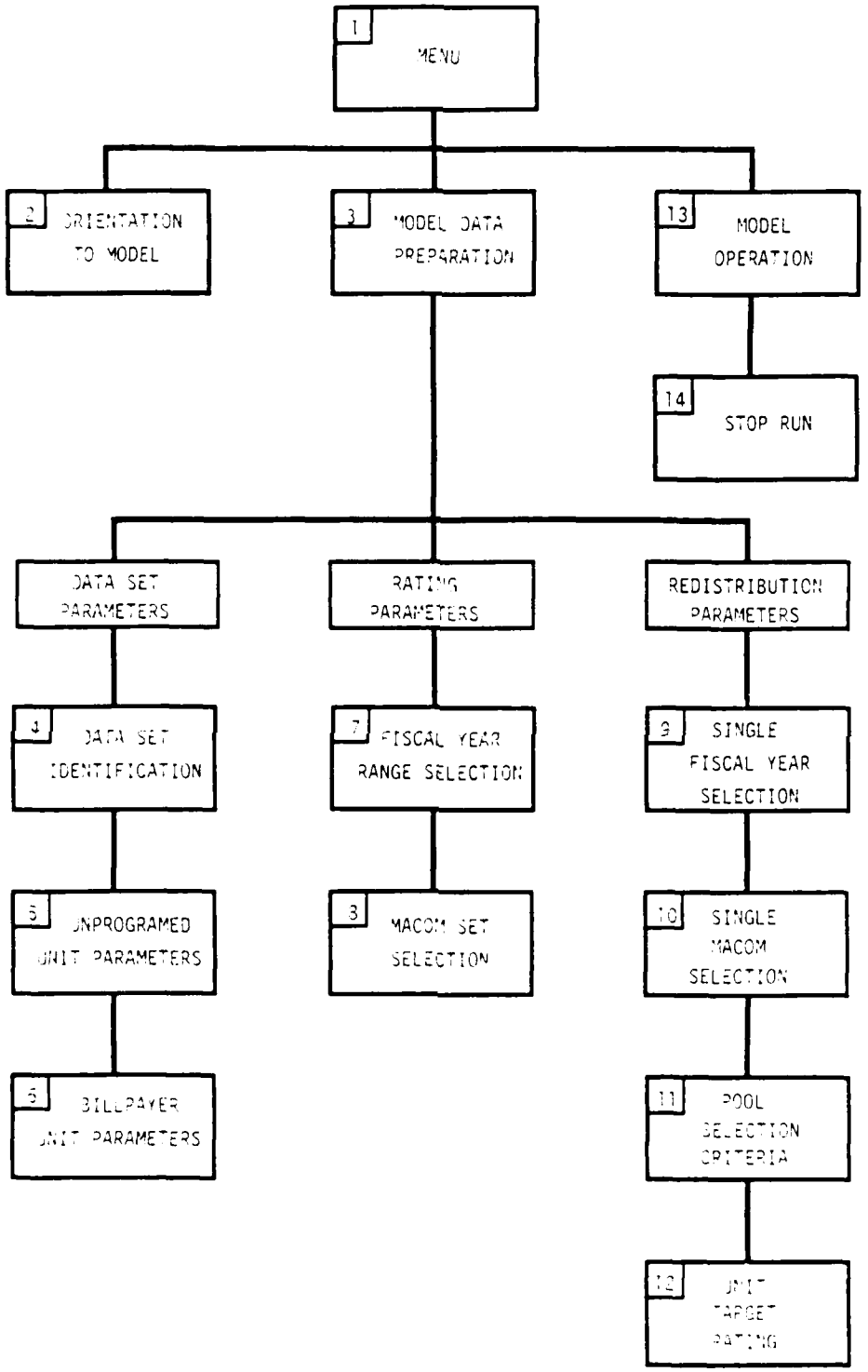

Figure I-3-1. Request Processor Screens

j. The SINGLE MACOM SELECTION Screen (#10) allows the user to select an individual MACOM to be involved in the equipment redistribution process. This selection is only applicable to the data set associated with "changed units" and is provided for use in the future. The E-DATE Model does not presently support redistribution of equipment among "changed units."

k. The POOL SELECTION CRITERIA Screen (#11) allows the user to select the parameters which control the units selected for uprate to a higher C-level of readiness and the units to be selected for downrate to a lower C-level of readiness (to release assets to uprated units).

l. The UNIT TARGET RATING Screen (#12) allows the user to select the C-ratings to be associated with particular uprated and downrated units.

m. The MODEL OPERATION Screen (#13) allows the user to "start" or "stop" the E-DATE Model in any of its several modes of operation.

n. The STOP RUN Screen (#14) is automatically generated by the processor each time the user selects the "stop run" option on Screen #13. It displays the job identification of the run to be terminated. It also displays the AUTOVON number of the LEA computer operator to be contacted to take the action to terminate the run.

d. The selection of the Data Set Parameter Sequence causes the following screens to be presented in turn:

DATA SET IDENTIFICATION
UNPROGRAMED UNIT PARAMETERS
UNPROGRAMED UNIT BILLPAYERS

The DATA SET IDENTIFICATION Screen (#4) allows the user to identify the data sets (units and associated equipment) to be retrieved from the TAEDP data tape.

e. The UNPROGRAMED UNIT PARAMETERS Screen (#5) allows the user to identify the parameters used by the E-DATE Model to create new (unprogramed) units.

f. The UNPROGRAMED UNIT BILLPAYERS SCREEN (#6) allows the user to identify the units from which equipment may be transferred to fill the newly created units.

g. The selection of the Rating Data Parameters sequence causes the following screens to be presented in turn:

FISCAL YEAR RANGE SELECTION
MACOM SET SELECTION

The FISCAL YEAR RANGE SELECTION Screen (#7) allows the user to select the particular range of fiscal years of interest from the seven fiscal years present in the TAEDP data.

h. The MACOM SET SELECTION Screen (#8) allows the user to select the particular major commands (MACOM) of interest from the 13 MACOM defined in the TAEDP data. This selection of MACOM is (only) used in conjunction with the data set associated with "changed units."

i. The selection of the Redistribution Data Parameters sequence causes the following screens to be presented in turn:

SINGLE FISCAL YEAR SELECTION
SINGLE MACOM SELECTION
POOL SELECTION CRITERIA
UNIT TARGET RATING

The SINGLE FISCAL YEAR SELECTION Screen (#9) allows the user to select the particular fiscal year to be involved in the equipment redistribution process.

SECTION 3. DETAILED CHARACTERISTICS

3.1. Specific Performance Requirements

3.1.1. Accuracy and Validity

Not applicable.

3.1.2. Timing

Not applicable.

3.2. System Functions

3.2.1. Screen Management

The Request Processor leads the user through the steps needed to prepare the model for operation and allows the user to start and stop the model, all with only a minimal familiarity with computer system operating procedures. The processor presents the user with a series of choices as to the task to be performed. The user indicates the task of interest, and the processor responds with a screen soliciting values appropriate to the task. The user enters these values, and the processor performs basic validity checks. If errors are encountered, the user is prompted for a corrected input. Otherwise, the processor moves on to solicit another task until all the necessary inputs are prepared or the user indicates the session is to be terminated.

3.2.2. Individual Screens

The processor program generates a set of 14 screens (Figure I-3-1).

a. The MENU Screen (#1) is the master directory to the other screens. It allows the user to select among three separate aspects of E-DATE Model operation, namely:

   ORIENTATION TO MODEL
   MODEL DATA PREPARATION
   MODEL OPERATION

b. The ORIENTATION TO MODEL Screen (#2) provides the user with a multiple page summary of the E-DATE Model.

c. The MODEL DATA PREPARATION Screen (#3) act as a submenu to allow the user to select a particular data preparation sequence, namely:

   DATA SET IDENTIFICATION
   RATING DATA PARAMETERS
   REDISTRIBUTION DATA PARAMETERS

2.3.2. Information Clusters

The information is also organized to group related items together. The size of the cluster must also be scaled to the size of the (full screen) display area available to the user, as the means of interaction with the computer.

2.4. Summary of Improvements

The Request Processor supports the decision support capability of the E-DATE Model by facilitating the ability of the user to interact with the model. The following improvements are provided:

- Identification of the choices of model operation available
- Identification of the user inputs associated with the chosen operation
- Verification of the user inputs for legality
- Automatic assembly and execution of the model runs

2.5. Summary of Impacts

The users of the E-DATE Model can expect to experience:

- Shorter orientation time to achieve facile use of the model
- Shorter run preparation time
- Greater awareness of factors used by the model to organize and process data

2.6. Assumptions and Constraints

The host computer for the E-DATE Model also supports the Sperry Display Processing System (DPS) used by the Request Processor to generate the full screen displays used to prompt the user for model control inputs.

SECTION 2. SYSTEM SUMMARY

2.1. Background

The US Army Concepts Analysis Agency (CAA) developed (ref 1.2b) the Effective Date (E-DATE) Model in response to tasking by the Office of the Deputy Chief of Staff for Logistics (ODCSLOG). The tasking called for the development of a methodology to assist logistics staff officers in responding to questions from the Deputy Chief of Staff for Operations and Plans (DCSOPS) about the adequacy of the fill of selected Army units.

The model has since undergone a round of enhancements (ref. 1.2c) to improve its capability, including an enhancement to make the model more "user friendly." In implementing this latter capability, the emphasis was placed on simplification of input procedures, with a presumption of minimum user familiarity with computer operation.

2.2. Objectives

The Request Processor has been designed to provide the ODCSLOG with the following:

- A general purpose capability to operate the E-DATE Model in all its modes.
- Minimal user involvement with specialized computer commands.
- Maximal use of user oriented terminology during interaction with the processor.

2.3. Methods and Procedures

In the development of the Request Processor, two basic concepts were employed, as follows:

- Information Hierarchy
- Information Clusters

2.3.1. Information Hierarchy

The information necessary to operate the E-DATE Model is organized to reflect the order of use by the processors. That is, the information needed first by the model is requested first and stored. Using this approach, the user is introduced to the structure of the operations and prevented from attempting to carry out operations out of sequence.

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1.3. Terms and Abbreviations

See Glossary at the end of this publication.

PART I - FUNCTIONAL DESCRIPTION

SECTION 1. GENERAL DESCRIPTION

1.1. Purpose of the Functional Description

This Functional Description for the Request Processor supplements the Functional Description of the E-DATE Model. It presumes reader familiarity with the E-DATE Model Functional Description and is written to provide:

a. The Request Processor requirements to be satisfied which will serve as a basis for mutual understanding between the user and the developer.

b. Information on the Request Processor performance requirements, preliminary design, and user impacts.

c. A basis for the development of the Request Processor tests.

1.2. Project References

a. Effective Date (E-DATE) Model Documentation, CAA-D-85-6, US Army Concepts Analysis Agency, Bethesda, MD, May 1985.

(1) Volume I - Functional Description

(2) Volume II - User's Manual

(3) Volume III - Computer Operation Manual

(4) Volume IV - Program Maintenance Manual

b. Management of MTOE Effective Dates Based on Equipment Availability (MTO Dates), CAA-SR-83-3, US Army Concepts Analysis Agency, Bethesda, MD, July 1983.

c. Effective Date (E-DATE) Model Enhancement, CAA-SR-84-17, US Army Concepts Analysis Agency, Bethesda, MD, July 1984.

1.2.1. Points of Contact

a. Model Utilization
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Department of the Army
Washington, DC 20310

c. The MODEL DATA PREPARATION Screen (#3) acts as a submenu to allow the user to select a particular data preparation sequence, namely:

DATA SET IDENTIFICATION
RATING DATA PARAMETERS
REDISTRIBUTION DATA PARAMETERS

d. The selection of the Data Set Parameter Sequence causes the following screens to be presented in turn:

DATA SET IDENTIFICATION
UNPROGRAMED UNIT PARAMETERS
UNPROGRAMED UNIT BILLPAYERS

The DATA SET IDENTIFICATION Screen (#4) allows the user to identify the data sets (units and associated equipment) to be retrieved from the TAEDP data tape.

e. The UNPROGRAMED UNIT PARAMETERS Screen (#5) allows the user to identify the parameters used by the E-DATE Model to create new (unprogramed) units.

f. The UNPROGRAMED UNIT BILLPAYERS SCREEN (#6) allows the user to identify the units from which equipment may be transferred to fill the newly created units.

g. The selection of the Rating Data Parameters sequence causes the following screens to be presented in turn:

FISCAL YEAR RANGE SELECTION
MACOM SET SELECTION

The FISCAL YEAR RANGE SELECTION Screen (#7) allows the user to select the particular range of fiscal years of interest from the seven fiscal years present in the TAEDP data.

h. The MACOM SET SELECTION Screen (#8) allows the user to select the particular major commands (MACOM) of interest from the 13 MACOM defined in the TAEDP data. This selection of MACOM is (only) used in conjunction with the data set associated with "changed units."

i. The selection of the Redistribution Data Parameters sequence causes the following screens to be presented in turn:

SINGLE FISCAL YEAR SELECTION
SINGLE MACOM SELECTION
POOL SELECTION CRITERIA
UNIT TARGET RATING

The SINGLE FISCAL YEAR SELECTION Screen (#9) allows the user to select the particular fiscal year to be involved in the equipment redistribution process.

j. The SINGLE MACOM SELECTION Screen (#10) allows the user to select an individual MACOM to be involved in the equipment redistribution process. This selection is only applicable to the data set associated with "changed units" and is provided for use in the future. The E-DATE Model does not presently support redistribution of equipment among "changed units."

k. The POOL SELECTION CRITERIA Screen (#11) allows the user to select the parameters which control the units selected for uprate to a higher C-level of readiness and the units to be selected for downrate to a lower C-level of readiness (to release assets to uprated units).

l. The UNIT TARGET RATING Screen (#12) allows the user to select the C-ratings to be associated with particular uprated and downrated units.

m. The MODEL OPERATION Screen (#13) allows the user to "start" or "stop" the E-DATE Model in any of its several modes of operation.

n. The STOP RUN Screen (#14) is automatically generated by the processor each time the user selects the "stop run" option on Screen #13. It displays the job identification of the run to be terminated. It also displays the AUTOVON number of the LEA computer operator to be contacted to take the action to terminate the run.

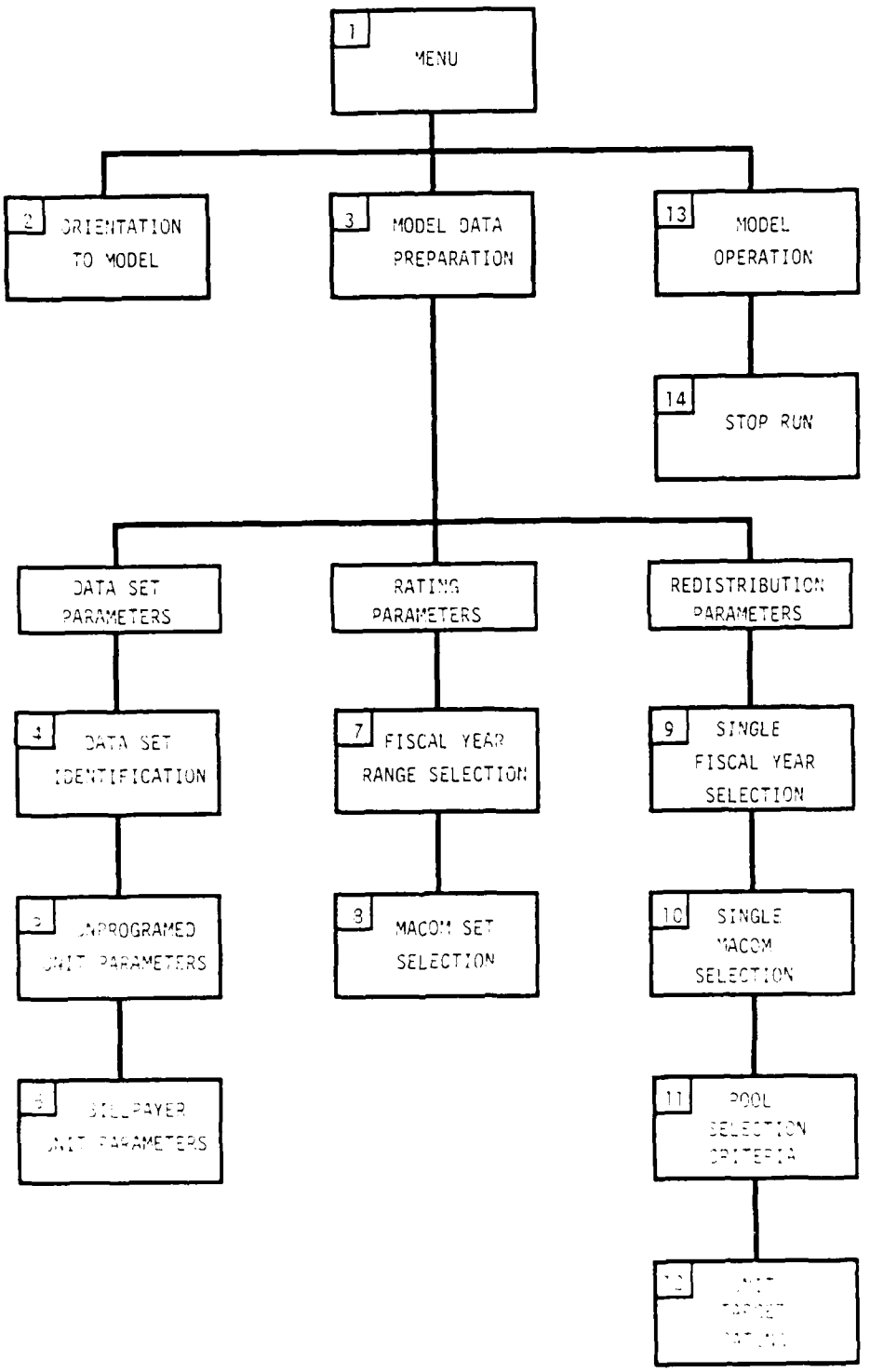


Figure II-2-1. Request Processor Screens

2.3.2. System Performance

a. Inputs

Screen Inputs

The Request Processor generates a total of 14 screens. All but one require the user to input either a selection or insert values.

Mass Storage Inputs

The Request Processor accesses mass storage files to extract:

- Runstream commands from prototype runstreams
- Previously generated run control parameter files for update purposes

b. Outputs

The Request Processor generates mass storage files containing:

- Run control parameters subsequently accessed by the E-DATE Model during run execution
- Runstream files for execution

c. Limitations

Not applicable.

d. Processing Time

The screen displays generated by the Request Processor are presented and processed in essentially real time.

2.4. Data Base

A data base as such is not involved. The processor, however, does access prototype runstreams. These runstreams (see Part III, para 3.2) have been specially edited with symbols which mark off the runstream into segments. These segments are used by the processor and assembled into the appropriate order to generate the required sequence of executions of the E-DATE Model.

SECTION 3. STAFF FUNCTIONS RELATED TO TECHNICAL OPERATION

3.1. Initialization Procedures

The use of the Request Processor involves two procedures, designated the Log-on Procedure and the Invoke Procedure.

3.2. Log-on Procedure

The procedure to log on the computer is as follows:

Step 1 - Initialize the System

Press the "LOAD" button on cluster controller in order to boot the 4020 system from the system diskette which must be mounted in the Integral Load Device (ILD).

At this point, if you wish to remote print output from the host computer (at LEA), enable screen bypass mode by going on to Step 2.

To enable local printing of screen displays, go to Optional Step, Part B below.

Step 2 - Screen Bypass

Sign on terminal
Enter User ID/Password
Enter Account
Enter Project-ID

```
@@SCBY    SØØ3Ø3
```

If a screen bypass is already active, go on to Step 3.

Reenter User ID/Password
Reenter Account
Reenter Project-ID

```
@FIN
@@TSBM
```

Go on to Step 3.

Step 3 - Load Remote Print Utility

To initiate the load of the remote print utility, get the control page and then change the XFER and search field as necessary to:

```
(**XFER**)
(I1/   /LR)SEARCH(RMTPRNT)
```

Store the control page by hitting the "Control Page" button. The alarm should not ring. If it does, check the status on the control. At this time a prompt of K-1ØØ should come up. You should see:

```
K-1ØØ Printer MNEMONIC ?
                Answer - P1
K-11Ø Remote Print Interface MNEMONIC ?
                Answer - R1
K-12Ø Host Interface (1=RSI; 2=OTHER)
                Answer - 1
K-13Ø Host Logical Unit Number
                Answer - 1
K-14Ø Number of Lines ?
                Answer - 24
```

More info prompts should appear. Go back to the control page and check status.

At this point, files should be able to be printed downline from the host.

Optional Step - Local Print

In order to get an "off-the-screen" print after screen bypass mode has been established, perform the following steps:

A. Down the remote print utility by adjusting the control page as follows:

```
(**XFER**)
(R1/   /RC)SEARCH(EXIT          )
```

Store the control page and wait for the "Search" field to say

```
(RMTPRNT TERMINATED    )
```

B. Then adjust the control page to the following:

```
(**PRNT**)  (**XFER**)
(  /P1/  )  (P1/  /AS)
```

Store the control page

At this point you may print from the screen by simply pressing the "Print" button.

C. When done, restore the remote print utility by going to Step 1 above.

NOTE: When the appropriate steps to achieve either printing option have been done but the printing will not work, go back to Step 1 and start over. Be absolutely certain to follow each step as it is described in this procedure.

3.3. Invoke Procedure

The Request Processor is invoked with the simple command:

@ADD,L MTOE*RP1PRGØØ.RUN

In response to this command the processor will be loaded onto the system and shortly display its first screen, a MENU screen.

3.4. Operation Procedure

a. Proceed to exercise the screens per the screen instructions, using the "TAB FWD" and "TAB BACK" keys to position the cursor to the appropriate entries on the screen. Place an "X" to make a selection or enter values directly where indicated. Be sure to select "ACTION" at bottom of screen to complete entry sequence (final position of tab is not significant). Action selections have the following meaning:

CONTINUE - process entries tabbed
EXIT - process entries and return to prior menu
STOP - ignore entries and return to main menu

b. To leave the processor, make the "STOP" selection on the current screen. This will return you to the "MENU" screen. Make the "STOP" selection again to terminate the session.

c. If the processor aborts and a system register dump appears across the screen, use the following commands to restore control to the keyboard.

(1) Enter "CURSOR TO HOME".
(2) Enter "UPPER FUNCTION" and "ERASE DIS" together.
(3) Repeat (1) and (2).
(4) Enter an SOE symbol followed by "@@END".
(5) Enter an SOE symbol followed by "@@X TIO".

d. Refer to the following paragraphs for a description and illustration of each screen.

3.4.1. Screen 01 - MENU

Description: This screen presents the user with the basic screen groups available.

Utilization: Select screen group of interest.

Format: See Figure II-3-2.

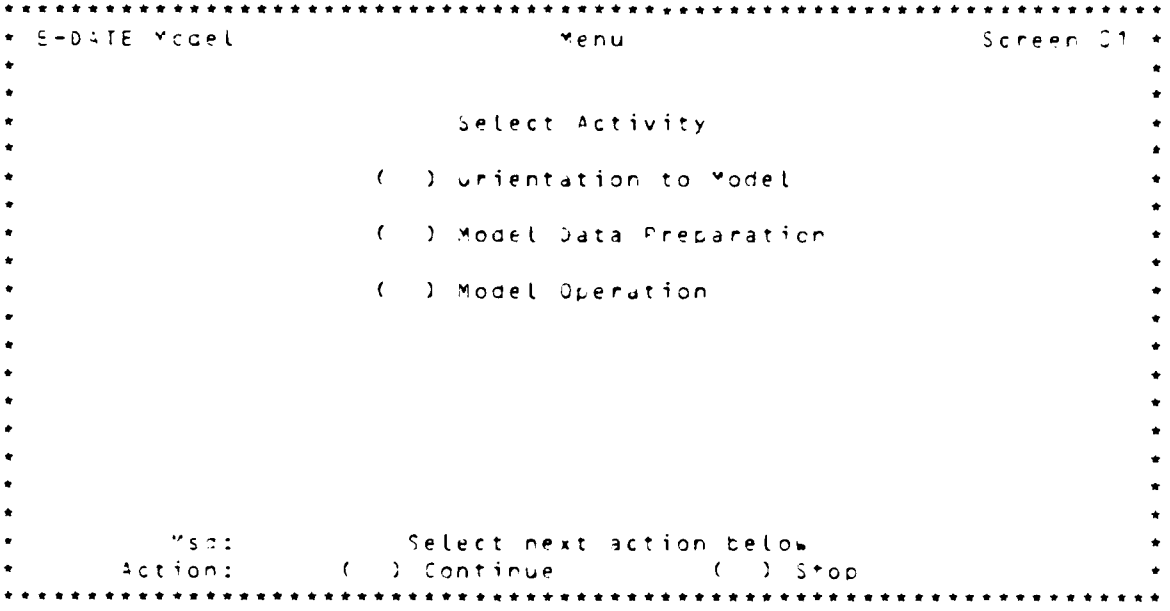


Figure II-3-2. Screen 01

3.4.2. Screen 02 - ORIENTATION TO MODEL

Description: This screen outlines each of the four processors comprising the E-DATE Model.

Utilization: Advance through orientation using "continue" selection at bottom of screen.

Format: See Figure II-3-3.

```
*************************************************************************
* E-DATE Model              Orientation to Model              Screen 02 *
*                                                                       *
* The E-DATE Model employs three data processors which are operated     *
* in sequence to generate measures of unit equipment readiness         *
* using C-ratings as follows:                                           *
*                                                                       *
*        Tape Processor(TP) - extracts data of interest from            *
*             TAFDP tape                                                *
*                                                                       *
*        File Processor(FP) - selects a particular set of data          *
*             from TP output, and reformats it by FY and unit           *
*             priority                                                  *
*                                                                       *
*                              (cont'd)                                 *
*                                                                       *
*                                                                       *
*          Msg:          Select next action below                       *
*       Action:      (  ) Continue          (  ) Exit                   *
*************************************************************************
```

Figure II-3-3. SCREEN 02
(page 1 of 3 pages)

```
*************************************************************************
* E-DATE Model              Orientation to Model              Screen 02 *
*                                                                       *
*        Assessment Processor - operates in two modes:                  *
*                                                                       *
*             Rating Mode - Accepts a particular FP file and            *
*                           computes the equipment readiness            *
*                           ratings of units present in file            *
*             Redistribution Mode - transfers assets, among             *
*                           previously rated units, to achieve          *
*                           a better mix of unit ratings                *
*                                                                       *
*  A fourth (this) processor, enables the user to prepare the           *
*  necessary user inputs to the model, by making selections in          *
*  to response to prompts. These entries are then checked for           *
*  valicity and used to used to generated files which are               *
*  accessed by the other processors during their runs.  (cont'd)        *
*                                                                       *
*          Msg:          Select next action pelo.                       *
*       Action:      (  ) Continue          (  ) Exit                   *
*************************************************************************
```

Figure II-3-3. Screen 02
(page 2 of 3 pages)

```
*****************************************************************************
* E-DATE Model              Orientation to Model              Screen 02     *
*                                                                           *
*                                                                           *
*  Use of this processor is directed by three end-of-screen                 *
*  commands as follows:                                                     *
*                                                                           *
*       CONTINUE - process entries and proceed to the next                  *
*                  screen in sequence                                       *
*                                                                           *
*       EXIT - process entries and return to the last                       *
*              selection screen                                             *
*                                                                           *
*       STOP - forget entries and return to the first                       *
*              selection (MENU) screen                                      *
*                                                                           *
*                                                                           *
*                                                                           *
*         Msg:          Select next action below                          *
*      Action:      (  ) Continue          (  ) Exit                       *
*****************************************************************************
```

Figure II-3-3. Screen 02
(page 3 of 3 pages)

3.4.3. Screen 03 - MODEL DATA PREPARATION

Description: This screen presents the user with the three data preparation screen groups available.

Utilization: Select screen group of interest.

Format: See Figure II-3-4.

3.4.10. Screen 10 - MACOM SELECTION

Description: This screen prompts the user for the single MACOM to be involved in the redistribution of equipment assets among units.*

Utilization: Select single MACOM of interest.

Format: See Figure II-3-11.

*The E-DATE Model does not support redistribution of data associated with "changed units." This screen is provided for such capability if implemented in the future.

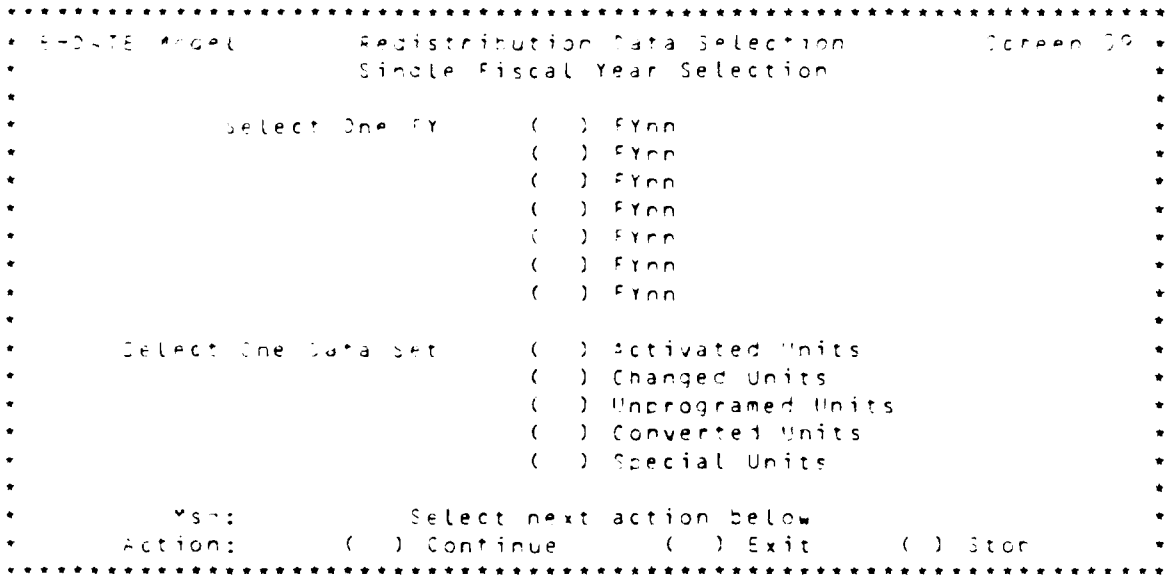


Figure II-3-10. Screen 09

3.4.9. Screen 09 - FISCAL YEAR SELECTION

Description: This screen prompts the user for the single fiscal year involved in the redistribution of equipment among units.

Utilization: Select fiscal year of interest. Then select the (single) data set desired.

Format: See Figure II-3-10.

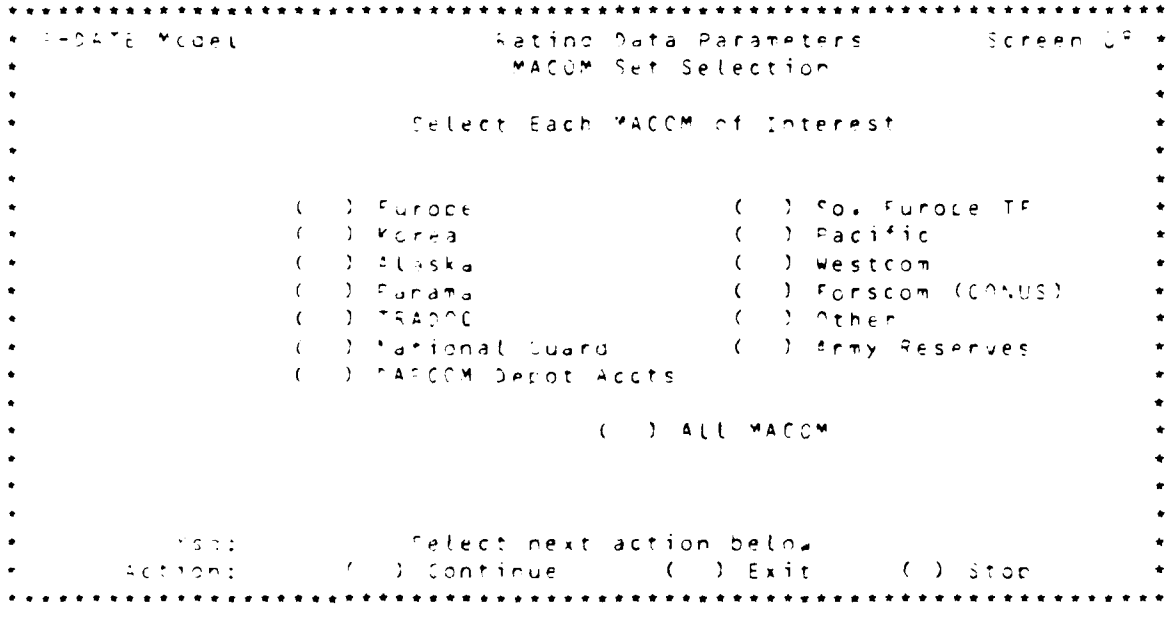


Figure II-3-9. Screen 08

3.4.8. Screen 08 - MACOM SET SELECTION

Description: This screen prompts the user for the major commands (MACOM) to be included in the rating of units impacted by CTU changes.

Utilization: Select MACOM of interest, including only one MACOM or every MACOM ("All"). Note that the choice of MACOM implies the use of "changed units" data set and therefore no data set choice is required.

Format: See Figure II-3-9.

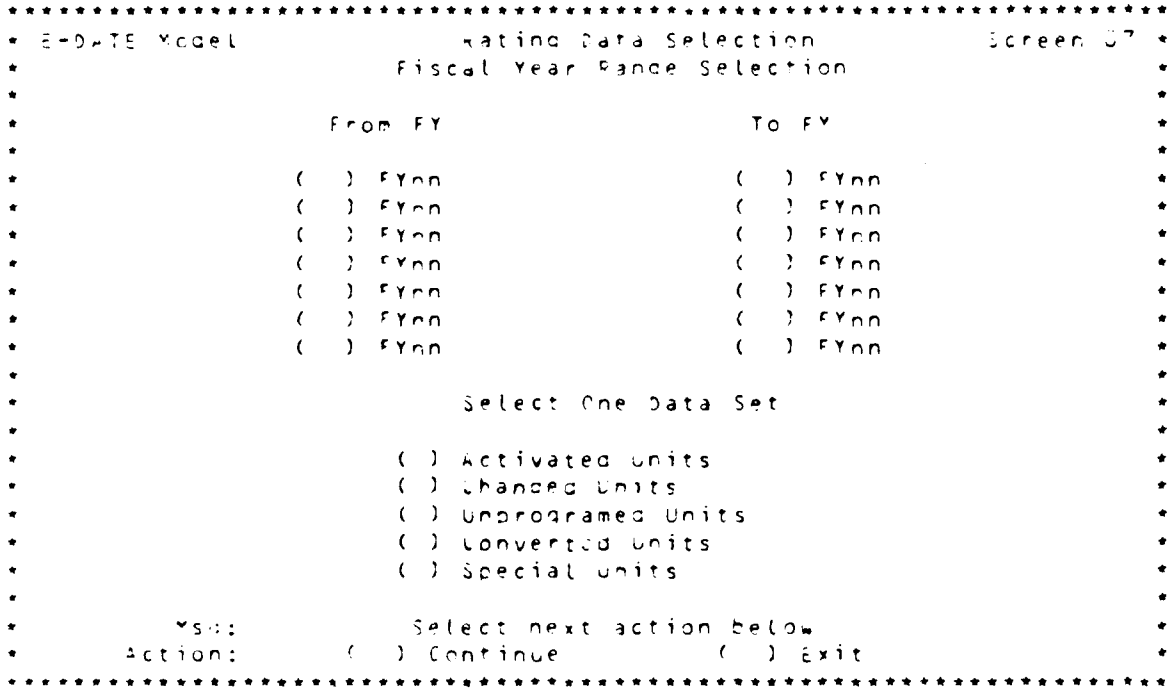


Figure II-3-8. Screen 07

3.4.7. Screen 07 - FISCAL YEAR RANGE SELECTION

Description: This screen prompts the user for the range of fiscal years over which units are to be rated and the data set involved.

Utilization: Select "from" and "to" fiscal years desired, including the choice of one year, by indicating the same year for "from" and "to". Then select the (single) data set desired.

Format: See Figure II-3-8.

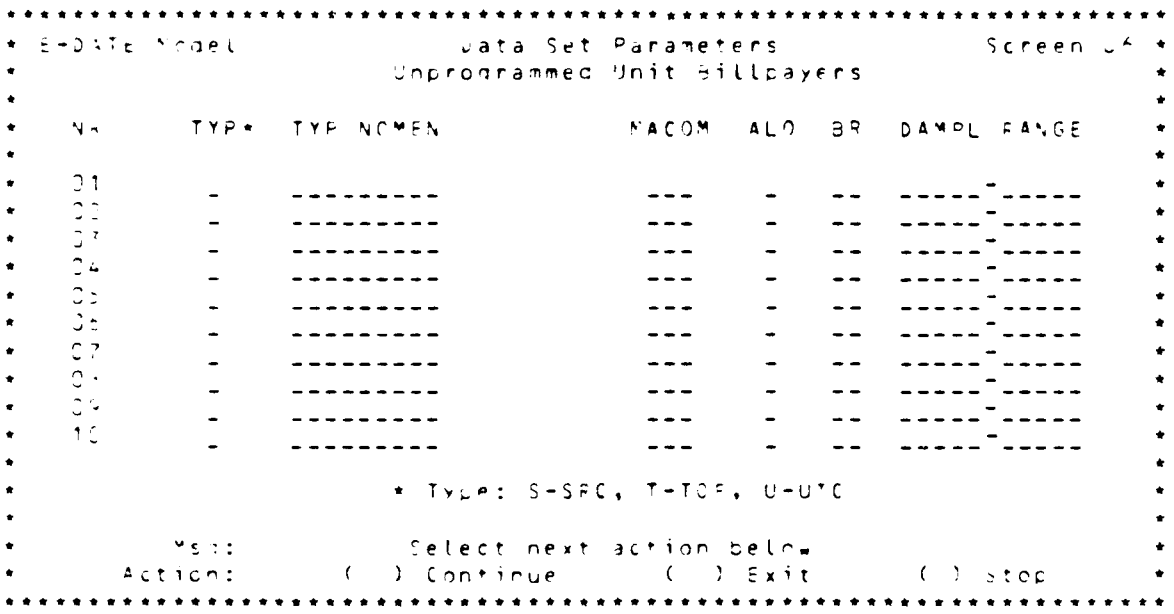


Figure II-3-7. Screen 06

3.4.6. Screen 06 - UNPROGRAMED UNIT BILLPAYERS

Description: This screen prompts the user for the identification of the unprogramed units to provide the equipment assets to fill the newly created units.

Utilization: Identify the criteria for selecting the billpayer units from which assets will be drawn to fill the newly created units.

TYP - The type of identification used to name the billpayer units, namely, "SRC", "TOE", or "UIC". Enter an "S", "T", or "U" letter for selection (see bottom of screen).

TYP NOMEN - The nomenclature identifying the unit, consistent with the above "TYP" selection, namely, a 9-character code for "SRC", a 6-character code for "TOE", and a 6-character code for "UIC".

MACOM - The major command from which the billpayer units are to be selected.

ALO - The authorized level of allowance from which the billpayer units are to be selected.

BR - The speciality branch from which the billpayer units are to be selected.

DAMPL RANGE - The priority range (DAMPL) from which the billpayer units are to be selected.

Format: See Figure II-3-7.

```
E-DATE Model          Data Set Parameters                    Screen 05
                  Unprogramed Unit Parameters

          NR   PROTO UIC    QT     CODE     EDATE     DAMPL

          01   ------       --     ----       --      -----
          02   ------       --     ----       --      -----
          03   ------       --     ----       --      -----
          04   ------       --     ----       --      -----
          05   ------       --     ----       --      -----
          06   ------       --     ----       --      -----
          07   ------       --     ----       --      -----
          08   ------       --     ----       --      -----
          09   ------       --     ----       --      -----
          10   ------       --     ----       --      -----

          Msg:          Select next action below
       Action:    (  ) Continue      (  ) Exit      (  ) Stop
```

Figure II-3-6. Screen 05

3.4.5. Screen 05 - UNPROGRAMED UNIT PARAMETERS

Description: This screen prompts the user for data identifying the unprogramed units to be introduced into the force.

Utilization: Enter identifying values as follows:

Proto UIC - Each UIC to be used for equipment requirements for unprogramed unit(s).

QT - Number of units to be created from Proto UIC.

CODE - Nomenclature to be used to identify each created unit (processing will add a 2-digit suffix to distinguish among units with same CODE).

EDATE - Effective date of unit entry into force for each unit created from Proto UIC.

DAMPL - DAMPL (priority) to be assigned to newly created unit.

Format: See Figure II-3-6.

```
E-DATE Model                Data Set Parameters                Screen 04
                          Data Set Identification

                Indicate Distribution Date of TAEDP Data

                   Date (MM/DD/YY): __/__/__

                Indicate First Fiscal Year in TAEDP Data
                      First Fiscal Year: 19__

     Select Data Sets Needed from TAEDP & Assign Identifier

                Data Set              Identifier (120 Max)

        (  ) Activated Units          (Activation Year)
        (  ) Changed (CTC) Units        ____________
        (  ) Unprogrammed Units         ____________
        (  ) Converted Units          (Conversion Year)
        (  ) Special Units              ____________

           Msg:            Select next action below
        Action:        (  ) Continue          (  ) Exit
```

Figure II-3-5. Screen 04

3.4.4. Screen 04 - DATA SET PARAMETERS

Description: This screen prompts the user for TAEDP data identification values and data set selection(s) of interest, including the nomenclature to be associated with the data sets in report generation.

Utilization: Identify data sets and set choices.

Format: See Figure II-3-5.

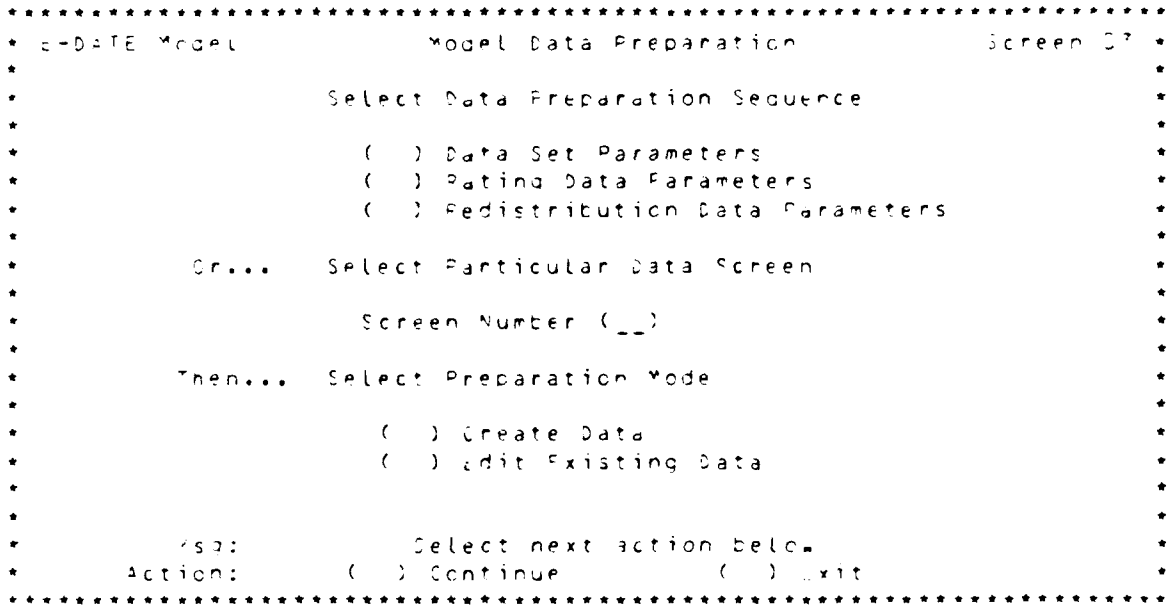


Figure II-3-4. Screen 03

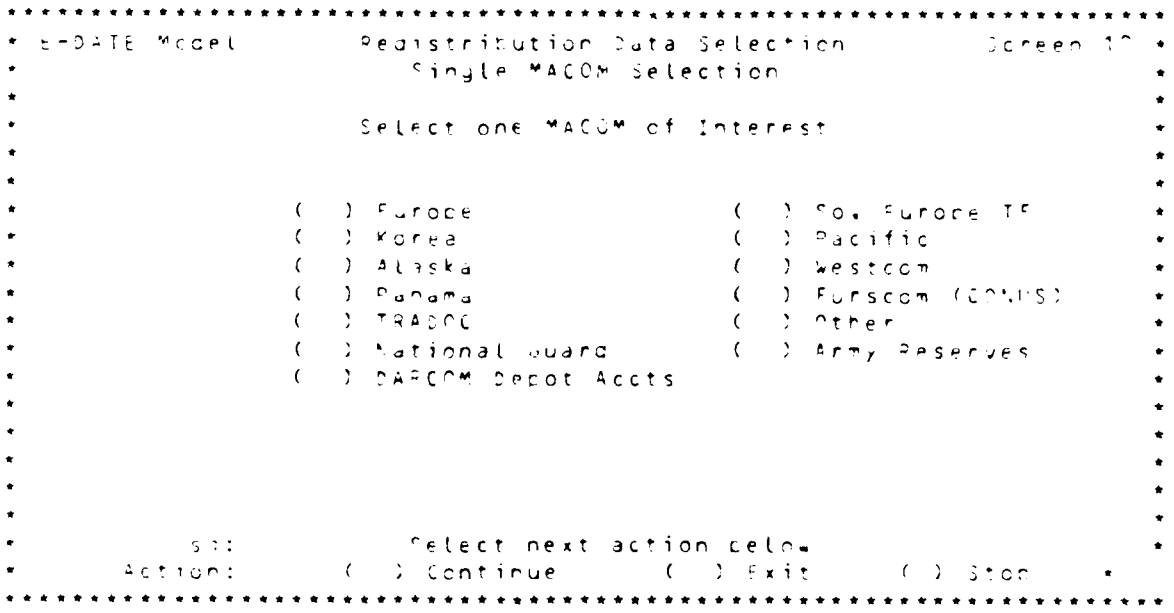


Figure II-3-11. Screen 10

3.4.11. Screen 11 - POOL SELECTION CRITERIA

Description: This screen prompts the user for the criteria by which units will be selected for C-rating uprate and downrate. A separate set of criteria is used for uprate and downrate. This screen is used in conjunction with Screen 12 to identify all units to be involved in the redistribution. This screen focuses on identifying units by their characteristics, while Screen 12 identifies units directly by their UIC.

Utilization: Select one or more criteria so as to define a pool. At least one criterion must be selected and care should be exercised as additional criteria are added that the pool does not become so exclusive that few or no members are admitted, since each member must meet all criteria to be admitted to the pool. The following parameters are used:

POOL C-RATING - The C-rating of the unit.

MACOM - The command in which the unit exists.

SRC - The SRC of the unit.

ALO - The authorized level of allowance of the unit.

BRANCH - Military speciality of the unit.

DAMPL-LO - The lowest priority unit admitted.

DAMPL-HI - The highest priority unit admitted.

TGT C-RATING - The C-rating value which all members of the pool must achieve (for uprated units) and below which downrated units must not fall.

Format: See Figure II-3-12.

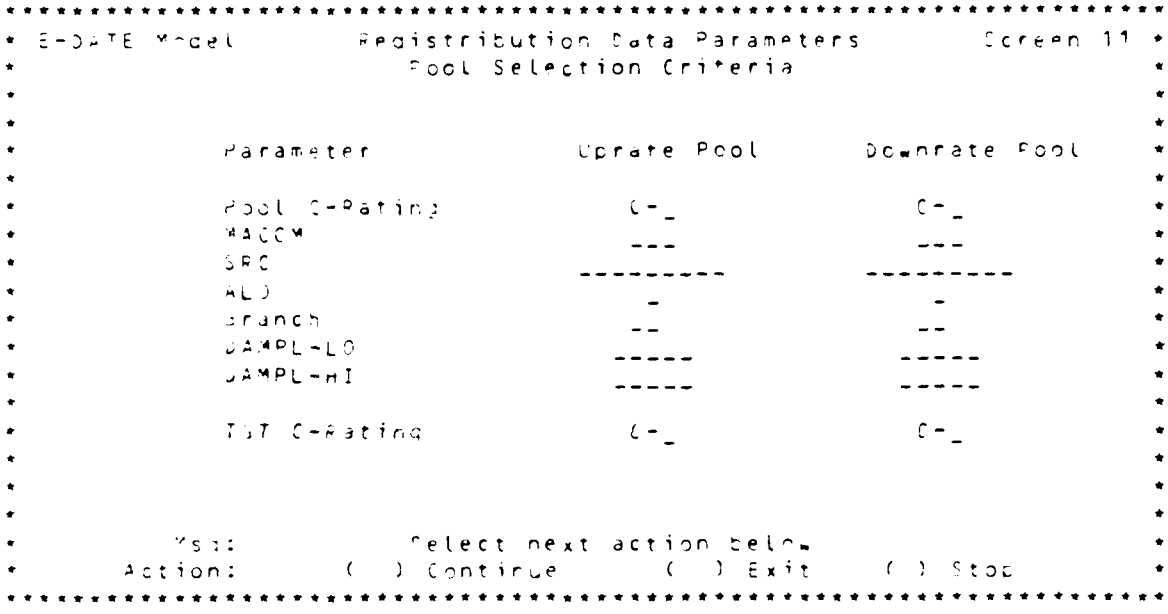


Figure II-3-12. Screen 11

3.4.12. Screen 12 - UNIT TARGET RATING DESIGNATION

Description: This screen prompts the user for the C-ratings to be associated with individual units. The ratings may be assigned to either uprate or downrate the unit for each fiscal year in the planning cycle.

Utilization: Identify each unit of interest by its UIC and enter at least one C-rating for one fiscal year, up to and including a C-rating for each fiscal year. Note that this assignment of a unit C-rating takes precedence over the pool selection criteria (Screen 11) if the unit also happens to be a member of either the uprate or downrate pool.

Format: See Figure II-3-13.

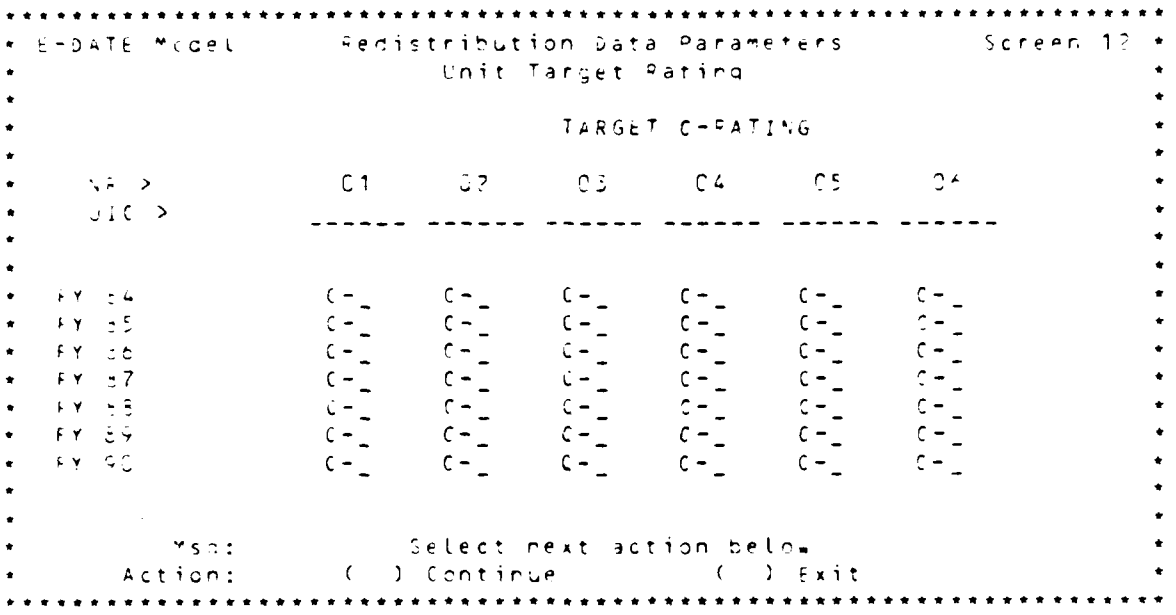


Figure II-3-13. Screen 12

3.4.13. Screen 13 - MODEL OPERATION

Description: This screen allows the user to select the processing to be carried out by the E-DATE Model.

Utilization: Select the operation of interest and indicate whether to START or STOP the run.

Format: See Figure II-3-14.

```
*****************************************************************************
* I-O-TE Model                    Model Operation                  Screen 13 *
*                                                                           *
*                                                                           *
*                            Select Processing                              *
*                                                                           *
*      (  ) - Generate Data Set       - For CTU Units                       *
*      (  ) - Generate Data Set       - For Unprogramed Units               *
*      (  ) - Generate Data Set       - For Other Units                     *
*      (  ) - Rate Unit Equipment     - By FY (As Selected)                 *
*      (  ) - Rate Unit Equipment     - By MACOM (As Selected)              *
*      (  ) - Registr Unit Equipment  - By Single FY (As Selected)          *
*      (  ) - Registr Unit Equipment  - By Single MACOM (As Selected)       *
*                                                                           *
*                            Select Operation                               *
*                                                                           *
*                    (  ) Start Run        (  ) Stop Run                    *
*                                                                           *
*                                                                           *
*          Msg:            Select next action below                         *
*       Action:        (  ) Continue          (  ) Exit                     *
*****************************************************************************
```

Figure II-3-14. Screen 13

3.4.14. Screen 14 - STOP RUN

Description: This screen advises the user of the name of the run the user has requested to be stopped.

Utilization: The user should follow the instructions indicated on the screen.

Format: See Figure II-3-15.

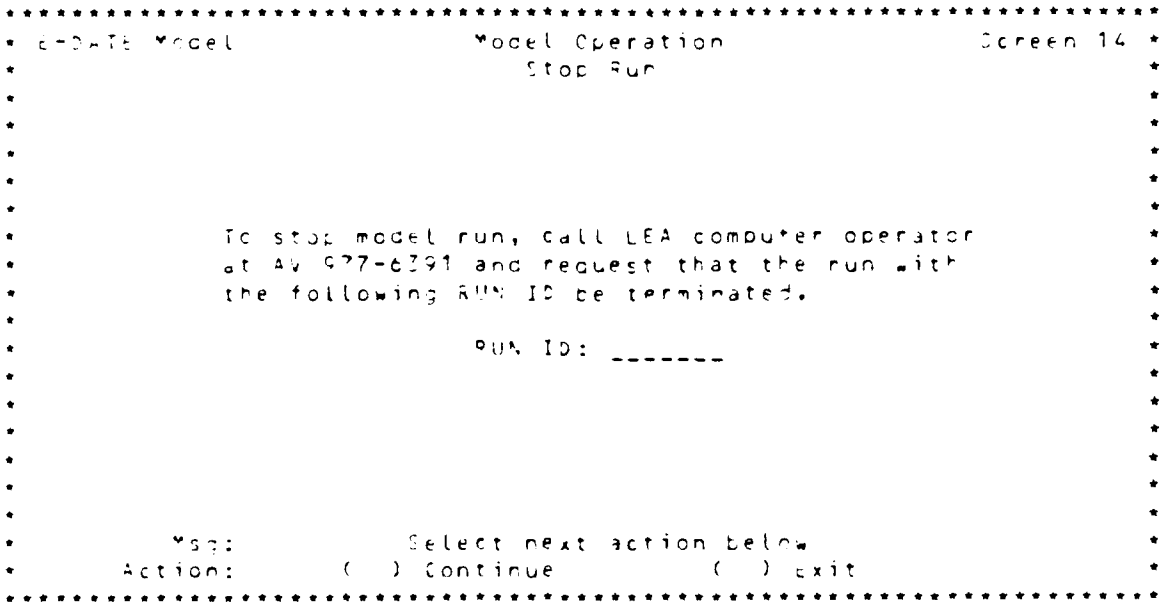


Figure II-3-15. Screen 14

3.5. Staff Input

Given that the user has established the need to use a particular data set in a particular mode of operation, the Request Processor will guide the user through the input and run execution procedures as described previously in paragraph 3.4.

3.6. Output Requirements

The Request Processor has two types of outputs, both of which are in the form of mass storage files. Neither of the file types directly involve the user. In fact, any user involvement with these files would defeat the purpose of the processor, which is to isolate the user from the mechanics of E-DATE model operation at the system level.

3.7. Utilization of System Outputs

Not applicable.

3.8. Recovery and Error Correction Procedures

3.8.1. CPU Failures

In the event of an overall system failure, the user must determine if the files which were created during the session were adversely affected by the system loss. This can be accomplished by reinvoking the processor and calling for the "edit" option offered by the data preparation screens. This will display the file contents and inspection will reveal if any faulty data are present. If so, corrected values should be entered and the screen instructions followed to complete the re-input.

3.8.2. Request Processor Failure

The processor provides messages on the progress of the inputting process at the bottom of each screen. If any messages should appear elsewhere on the screen, a system related fault has occurred. The user should try to terminate the session with one or more "STOP" entries. If these are successful, the user should reinvoke the processor and attempt to return to the troublesome screen and reenter the selections, paying particular attention to the sequence of operations and messages generated by the processor. If the system fault message reappears, the program maintenance staff should be consulted for assistance.

SECTION 4. FILE QUERY PROCEDURES

Not applicable.

PART III - COMPUTER OPERATION MANUAL

SECTION 1. GENERAL DESCRIPTION

1.1. Purpose of the Computer Operation Manual

This Computer Operation Manual for the Request Processor supplements the Computer Operation Manual for the E-DATE Model (ref. 1.2a(3)). It presumes reader familiarity with the E-DATE Model Computer Operation Manual and is to provide the computer operations personnel with an operational description of the processor and its associated environment. The focus of this manual has been directed to those aspects of the processor with which operations personnel will be concerned during the performance of their duties. In addition, it contains all the executive control language (ECL) associated with the operation of the processor.

1.2. Project References

a. Effective Date (E-DATE) Model Documentation, CAA-D-85-6, US Army Concepts Analysis Agency, Bethesda, MD, May 1985.

(1) Volume I - Functional Description

(2) Volume II - User's Manual

(3) Volume III - Computer Operation Manual

(4) Volume IV - Program Maintenance Manual

b. Management of MTOE Effective Dates Based on Equipment Availability (MTO Dates), CAA-SR-83-3, US Army Concepts Analysis Agency, Bethesda, MD, July 1983.

c. Effective Date (E-DATE) Model Enhancement, CAA-SR-84-17, US Army Concepts Analysis Agency, Bethesda, MD, July 1984.

1.3. Terms and Abbreviations

See Glossary.

SECTION 2. SYSTEM OVERVIEW

2.1. System Application

The Request Processor leads the user through the steps needed to prepare the model for operation and allows the user to start and stop the model, all with only a minimal familiarity with computer system operating procedures. The processor presents the user with a series of choices as to the task to be performed. The user indicates the task of interest, and the processor responds with a screen soliciting values appropriate to the task. The user enters these values, and the processor performs basic validity checks. If errors are encountered, the user is prompted for a corrected input. Otherwise, the processor moves on to solicit another task until all the necessary inputs are prepared or the user indicates the session is to be terminated.

2.2. System Organization

The processor program generates a set of 13 screens (Figure III-2-1).

a. The MENU Screen (#1) is the master directory to the other screens. It allows the user to select among three separate aspects of E-DATE Model operation, namely:

ORIENTATION TO MODEL
MODEL DATA PREPARATION
MODEL OPERATION

b. The ORIENTATION TO MODEL Screen (#2) provides the user with a multiple page summary of the E-DATE Model.

c. The MODEL DATA PREPARATION Screen (#3) acts as a submenu to allow the user to select a particular data preparation sequence, namely:

DATA SET IDENTIFICATION
RATING DATA PARAMETERS
REDISTRIBUTION DATA PARAMETERS

d. The selection of the Data Set Parameter Sequence causes the following screens to be presented in turn:

DATA SET IDENTIFICATION
UNPROGRAMED UNIT PARAMETERS
UNPROGRAMED UNIT BILLPAYERS

The DATA SET IDENTIFICATION Screen (#4) allows the user to identify the data sets (units and associated equipment) to be retrieved from the TAEDP data tape.

e. The UNPROGRAMED UNIT PARAMETERS Screen (#5) allows the user to identify the parameters used by the E-DATE Model to create new (unprogramed) units.

f. The UNPROGRAMED UNIT BILLPAYERS SCREEN (#6) allows the user to identify the units from which equipment may be transferred to fill the newly created units.

g. The selection of the Rating Data Parameters sequence causes the following screens to be presented in turn:

FISCAL YEAR RANGE SELECTION
MACOM SET SELECTION

The FISCAL YEAR RANGE SELECTION Screen (#7) allows the user to select the particular range of fiscal years of interest from the seven fiscal years present in the TAEDP data.

h. The MACOM SET SELECTION Screen (#8) allows the user to select the particular major commands (MACOM) of interest from the 13 MACOM defined in the TAEDP data. This selection of MACOM is (only) used in conjunction with the data set associated with "changed units."

i. The selection of the Redistribution Data Parameters sequence causes the following screens to be presented in turn:

SINGLE FISCAL YEAR SELECTION
SINGLE MACOM SELECTION
POOL SELECTION CRITERIA
UNIT TARGET RATING

The SINGLE FISCAL YEAR SELECTION Screen (#9) allows the user to select the particular fiscal year to be involved in the equipment redistribution process.

j. The SINGLE MACOM SELECTION Screen (#10) allows the user to select an individual MACOM to be involved in the equipment redistribution process. This selection is only applicable to the data set associated with "changed units" and is provided for use in the future. The E-DATE Model does not presently support redistribution of equipment among "changed units."

k. The POOL SELECTION CRITERIA Screen (#11) allows the user to select the parameters which control the units selected for uprate to a higher C-level of readiness and the units to be selected for downrate to a lower C-level of readiness (to release assets to uprated units).

```
!
,A.N     RTCOMP,,I.S-SI,72.,1CCC
,TITLE,FP  E-DATE,RTCOMP,
,A.L,F   TP.CHPG1.                  . CHANGED (CTU) UNIT FILE (INPUT)
,A..,I    2.                        . LOCAL CONTROL FILE
,A.F,I    3.                        . UNIT ID AND RECORD TYPE COUNT
,A.G,I   11.,F///1CCFC              . FP-FY1 UNIT EQUIPMENT RECORDS
,A.H,I   12.,F///1CCFC              . FP-FY2 UNIT EQUIPMENT RECORDS
,A.I,I   13.,F///1CCFC              . FP-FY3 UNIT EQUIPMENT RECORDS
,A.J,I   14.,F///1CCFC              . FP-FY4 UNIT EQUIPMENT RECORDS
,A.K,I   15.,F///1CCFC              . FP-FY5 UNIT EQUIPMENT RECORDS
,A.L,I   16.,F///1CCFC              . FP-FY6 UNIT EQUIPMENT RECORDS
,A.M,I   17.,F///1CCFC              . FP-FY7 UNIT EQUIPMENT RECORDS
,A.N,I   21.,F///1CCFC              . FP-SORT & AP-FY1 RATING FILE
,A.O,I   22.                        . AP-FY2 RATING FILE
,A.P,I   23.                        . AP-FY3 RATING FILE
,A.Q,I   24.                        . AP-FY4 RATING FILE
,A.R,I   25.                        . AP-FY5 RATING FILE
,A.S,I   26.                        . AP-FY6 RATING FILE
,A.T,I   27.                        . AP-FY7 RATING FILE
,A.U,I   30.                        . SCRIBE RATING FILE
,A.V,I   31.                        . COMPOSITE RATING FILE
!
,TITLE,FP  E-DATE,RTCOMP,FP-STE,
,A.W,A   FP.PIK...                  . PICKED UNIT OUTPUT TAPE
,A.X,A   FP.SKP...                  . SKIPPED UNIT OUTPUT FILE
,A.Y,A   FP.RTC..                   . PRINT FILE IN LIEU OF SYSLOG
,USE     19,FP.SKP.C
,USE     20,FP.PIK.C
,USE     21,FP.PRT.C
,A.1     ..,3.,21.,17.,18.,14.,15.,16.,17.,21.
,A.2,N   RTCOMP..C.
,WAIT    .. I 17
,A.3
,A.4,N   INPUT FILE ASSIGNED TO UNIT-7 DURING EXECUTION
,A.5     FP.PRT.C.7,F-FP2
,A.6,N   FP.PIK.C.
,A.7     FP.SKP...
,A.8     FP.RTC..
,A.9,N
```

Figure III-3-6. Prototype Runstream - RPITYP05
(page 1 of 3 pages)

```
*
*
*
,A  C,A   AP2IRB_7.                  . FY7 ITEM RATING *TAPE* - BASE CASE
,A  C,A   AP2WOR_7.                  . FY7 WORKSHEET - BASE CASE
,A  C,A   AP2BAS27.                  . FY7 UNIT RATING FILE - BASE CASE
,   E      7,FPIPIK2C
,   E      8,AP2W(B27
,   E     10,AP2I-B27
,   E     11,AP2BAS27
,   E     29,AP2-PTIC.
,   S   9.,19.,2 .,21.,22.,23.,24.,25.,26.,27.,28.,30.
,   T     AP2PRCCL.7C*-AP2-BAS
,   C,A
,   E  IRB   FP/PIP2 .
,   EEL   AP2WRT .
,   FE    AP2IR .7.
,   FE    AP2WOR .7.
,   EE    AP2BAS27.
,   G,A
,YM,C   AP WRT .                     . LEA COPIES
,YM,C   AP WOR27.
,   ,A
,YM,C   AP WRT .,,*CB3C3             . PLF COPIES
,YM,C   AP WOR27.,,*CB3C3
,
,   A
E
```

Figure III-3-5. Prototype Runstream - PPITYP01
page 3 of 3 pages

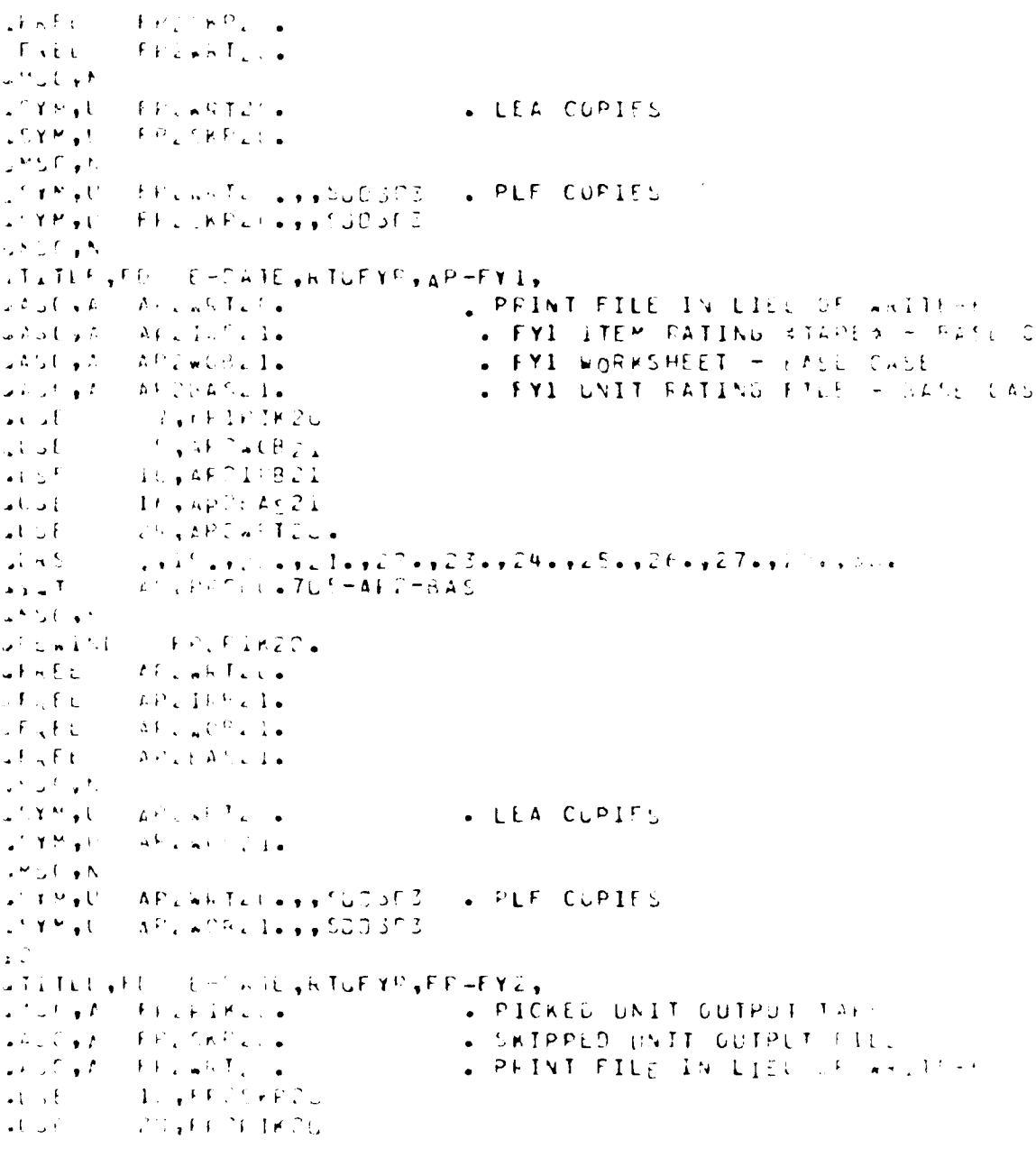
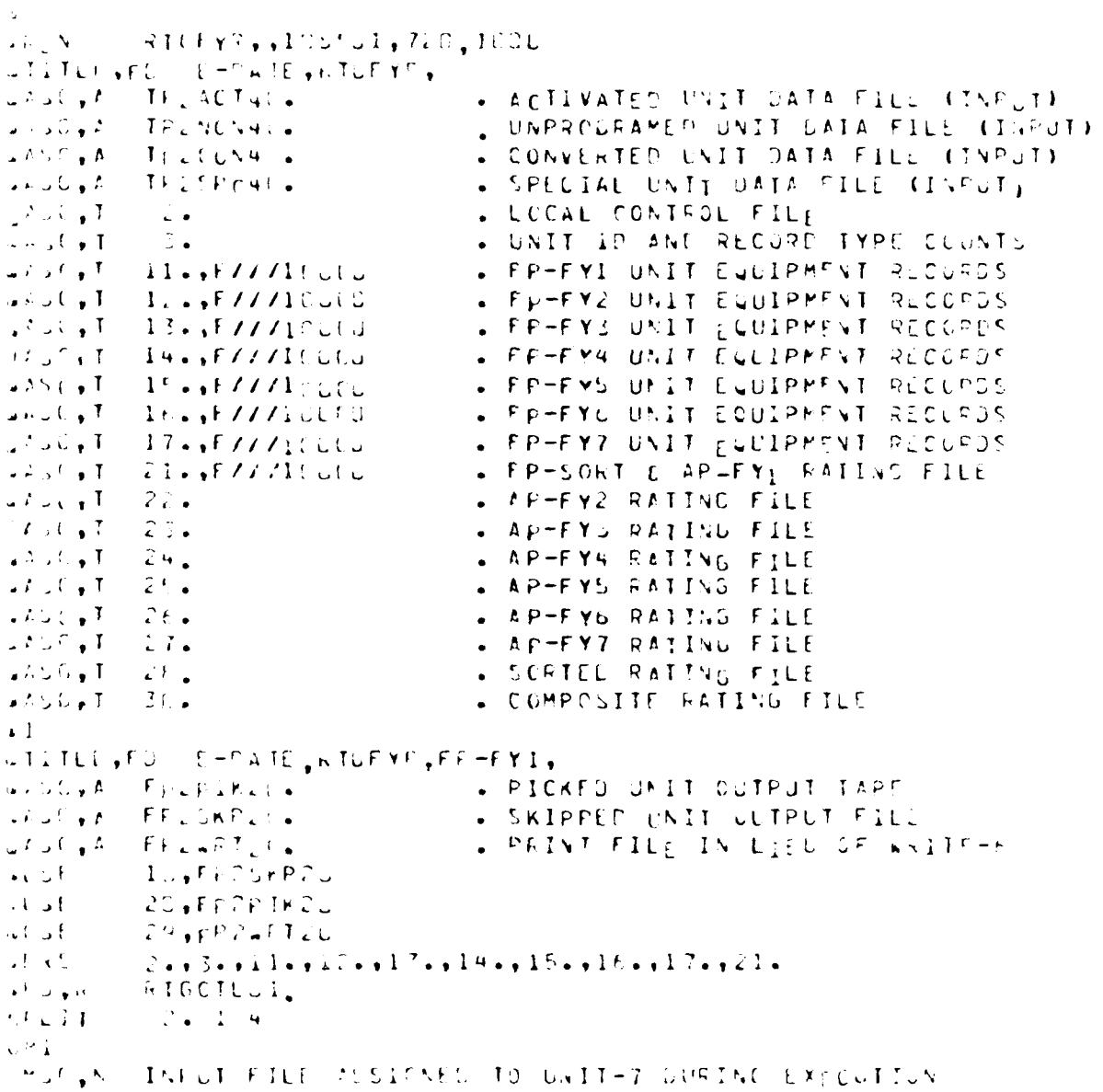


Figure III-3-5. Prototype Runstream - RP1TYP04
(page 2 of 3 pages)



```
*
*R,N    RP1TYP0,,1MB,01,720,1CCL
*TITLE,FD  E-DATE,RTUFYP,
*ASG,A  TP,ACT41.           . ACTIVATED UNIT DATA FILE (INPUT)
*ASG,A  TP,NCN41.           . UNPROGRAMED UNIT DATA FILE (INPUT)
*ASG,A  TP,CON4 .           . CONVERTED UNIT DATA FILE (INPUT)
*ASG,A  TP,SPC41.           . SPECIAL UNIT DATA FILE (INPUT)
*ASG,T   2.                 . LOCAL CONTROL FILE
*ASG,T   3.                 . UNIT ID AND RECORD TYPE COUNTS
*ASG,T  11.,F///1CCC        . FP-FY1 UNIT EQUIPMENT RECORDS
*ASG,T  12.,F///1CCC        . FP-FY2 UNIT EQUIPMENT RECORDS
*ASG,T  13.,F///1CCC        . FP-FY3 UNIT EQUIPMENT RECORDS
*ASG,T  14.,F///1CCC        . FP-FY4 UNIT EQUIPMENT RECORDS
*ASG,T  15.,F///1CCC        . FP-FY5 UNIT EQUIPMENT RECORDS
*ASG,T  16.,F///1CCC        . FP-FY6 UNIT EQUIPMENT RECORDS
*ASG,T  17.,F///1CCC        . FP-FY7 UNIT EQUIPMENT RECORDS
*ASG,T  21.,F///1CCC        . FP-SORT & AP-FY1 RATING FILE
*ASG,T  22.                 . AP-FY2 RATING FILE
*ASG,T  23.                 . AP-FY3 RATING FILE
*ASG,T  24.                 . AP-FY4 RATING FILE
*ASG,T  25.                 . AP-FY5 RATING FILE
*ASG,T  26.                 . AP-FY6 RATING FILE
*ASG,T  27.                 . AP-FY7 RATING FILE
*ASG,T  28.                 . SCRTCL RATING FILE
*ASG,T  30.                 . COMPOSITE RATING FILE
*I
*TITLE,FD  E-DATE,RTUFYP,FP-FY1,
*ASG,A  FP,PIKC1.           . PICKED UNIT OUTPUT TAPE
*ASG,A  FP,SKPC1.           . SKIPPED UNIT OUTPUT FILE
*ASG,A  FP,PRT1.            . PRINT FILE IN LIEU OF WRITER
*ASG     1.,FP,SPC.
*ASG     20,FP,PIKC.
*ASG     24,FP,PRT1.
*FREE    2.,3.,11.,12.,13.,14.,15.,16.,17.,21.
*RUN,M   RIGCTL01.
*FREE    2. 1 4
*I
*ASG,N  INPUT FILE ASSIGNED TO UNIT-7 DURING EXECUTION
*ASG,T   FP,PSCC1.720-FP
*FREE,T   FP,PIK,20.
```

Figure III-3-5. Prototype Runstream - RP1TYPØ4
(page 1 of 3 pages)

```
,*
,JOB    TP2NON,IPSSUI,,72C,1000
,TITLE,FC   E-DATE,DIANCN,
,ASC,A  TP2PRGUC.              . PROGRAM FILE
,*SG,*
,*SC,A  DTACTLG1.              . USER INPUT - DATA SET SELECTION
,*SC,A  DTACTLG2.              . USER INPUT - ID NONPROD UNITS
,ASC,A  DTACTLG3.              . USER INPUT - ID BILLPAYER UNITS
,*SC,*
,*SG,A  MTCG3D5D.              . DATA FILE - TALDF
,*SC,*
,ASG,A  TP2NCN4C.              . OUTPUT FILE - ALL UNITS
,ASC,A  TP2MSGGC.              . OUTPUT FILE - MESSAGES
,*SC,*
,ASC,A  TP2WRT2C.              . PRINT FILE - IN LIEU OF WRITE-S
,ASC,A  TP2APF2C.              . PRINT FILE - ALL UNITS
,ASG,A  TP2APF21.              . PRINT FILE - NON UNITS
,ASG,A  TP2APF22.              . PRINT FILE - BILLPAYER UNITS
,ASG,T  TP2WSN4C.              . SCRATCH FILE -NON UNITS
,*SC,*
,*SE    4,DTACTLG1.
,*SE    5,TP2MSGGC
,*SE    4,DTACTLG2.
,*SE    7,MTCG3D5C.
,*SE    6,DTACTLG3.
,*SE   13,TP2WSN4C.
,*SE   14,TP2NCN4C.
,*SE   16,TP2APF2C.
,*SE   17,TP2APF21.
,*SE   18,TP2APF22.
,*SE   29,TP2WRT2C.
,*SC,*
,*SJ    TP2PRGUC.7G5-TP2-NON
,*SEE   TP2WRT2C.
,*SEC   TP2APFGC.
,*SEE   TP2MSGGC.
,*SG,*
,*SYP,C  TP2WRT2C.             . LEA COPIES
,*SYM,C  TP2APFGC.
,*SYM,C  TP2MSGGC.
,*SG,*
,*SYM,C  TP2WRT2C.,,SGGSC3     . PLF COPIES
,*SYM,C  TP2APFGC.,,SGGSC3
,*SYM,C  TP2MSGGC.,,SGGSC3
,*SC,*
,*
```

Figure III-3-4. Prototype Runstream - RP1TYP03

```
$!
$!  LTACHG,1,5901,,/CL,1000
$!TITLE,FD  L-DATE,DTACHG,
$ ASSIGN  TP_PRGM.                    ! PROGRAM FILE
$!
$ ASSIGN  DTACTL01.                   ! USER INPUT - DATA SET SELECTION
$!
$ ASSIGN  MTC_3001.                   ! DATA FILE - TAPDB
$ ASSIGN  CTASP___.                   ! DATA FILE - CTL CHANGES
$!
$ ASSIGN  TP2CHG01.                   ! OUTPUT FILE - CHANGED UNITS
$ ASSIGN  TP2MSG01.                   ! OUTPUT FILE - MESSAGES
$!
$ ASSIGN  TP_WRT20.                   ! PRINT FILE - IN LIEU OF WRITE-6
$ ASSIGN  TP_APP20.                   ! PRINT FILE - ALL UNITS
$!
$ DEASSIGN  4,DTACTL01.
$ DEASSIGN  3,TP_MSG01
$ DEASSIGN  7,MTC_3001.
$ DEASSIGN  9,DTASP___.
$ DEASSIGN 12,TP2CHG01.
$ DEASSIGN 10,TP2APP20.
$ DEASSIGN 29,TP2WRT20.
$!
$ RUN  TP2PRGM.TUS-TP2-CHG
$ FREE  TP_WRT20.
$ FREE  TP_APP20.
$ FREE  TP2MSG01.
$!
$ SYM,L  TP_WRT20.                    ! LFA COPIES
$ SYM,U  TP2APP01.
$ SYM,U  TP2MSG01.
$!
$ SYM,U  TP_WRT20.,,,SUBSYS           ! PLF COPIES
$ SYM,U  TP_APP01.,,,SUBSYS
$ SYM,U  TP2MSG01.,,,SUBSYS
$ EXIT
$!
```

Figure III-3-3. Prototype Runstream - RP1TYP02

```
.
.JOB    DTAMLT,0159C1,,720,1000
.TITLE,FD    E-DATE,DTAMLT,
.ASG,A  TP2PROGC.              . PROGRAM FILE
.MSG,N
.ASG,A  DTACTLC1.              . USER INPUT - DATA SET SELECTION
.ASG,A  DTACTLC4.              . USER INPUT - SPECIAL UNITS
.MSG,N
.ASG,A  MTC03056.              . DATA FILE - TAPE
.MSG,N
.ASG,A  TP2ACT4C               . OUTPUT FILE - ACTIVATED UNITS
.ASG,A  TP2CON4C.              . OUTPUT FILE - CONVERTED UNITS
.ASG,A  TP2MSGCC.              . OUTPUT FILE - MESSAGES
.MSG,N
.ASG,A  TP2WRT2C.              . PRINT FILE - IN LIEU OF WRITE-6
.ASG,A  TP2APE2C.              . PRINT FILE - ALL UNITS
.MSG,N
.USE    2,DTACTLC1.
.USE    3,TP2MSGC0
.USE   10,DTACTLC4.
.USE    7,MTC03C5C.
.USE   11,TP2ACT4C.
.USE   15,TP2CON4C.
.USE   16,TP2APE2C.
.USE   19,TP2SPC4C.
.USE   29,TP2WRT2C.
.MSG,N
.XQT    TP2PROGC.7C5-TP2-MLT
.ENDLL  TP2WRT2C.
.ENDLL  TP2APE2C.
.ENDLL  TP2MSGCC.
.MSG,A
.SYM,U  TP2WRT2C.              . LPA COPIES
.SYM,I  TP2APE2C.
.SYM,L  TP2MSGCC.
.MSG,A
.SYM,U  TP2WRT2C.,,5CC3C3      . FLE COPIES
.SYM,I  TP2APE2C.,,5CC3C3
.SYM,L  TP2MSGCC.,,5CC3C3
.EOJ
.
```

Figure III-3-2. Prototype Runstream - RP1TYP01

3.2. Prototype Runstreams

The Request Processor constructs runstreams as prescribed by the user request. The runstreams are constructed using a prototype runstream. A separate prototype runstream is provided for each processing function of the E-DATE Model and includes all the cases (e.g., fiscal year or major command) possible within the function. The runstreams are stored as elements in the Request Processor file and at execution time are copied into temporary files for access by the runstream generation code within the Request Processor. These runstreams are divided into segments using a dollar sign ($) delimiter between cases. The appropriate segments are assembled by the processor to meet the specific user requirement for E-DATE Model operation and loaded into a constructed runstream file (see para 3.3). A total of seven prototype runstreams are available, as shown in Table III-3-1.

Table III-3-1. Prototype Runstreams

Prototype runstream (file. element name)	Processing function
RP1PRGØØ.DTAMLTP	Generate data files for activated and/or converted and/or special units
RP1PRGØØ.DTACHGP	Generate data file for changed (CTU) units
RP1PRGØØ.DTANONP	Generate data files for unprogramed units
RP1PRGØØ.RTGFYRP	Generate rating of units by fiscal year
RP1PRGØØ.RTGCMDP	Generate rating of units by command (MACOM)
RP1PRGØØ.DSTFYRP	Distribute assets among units for a particular fiscal year
RP1PRGØØ.DSTCMDP	Distribute assets among units for a particular command (MACOM)

The individual prototype runstreams are shown in Figures III-3-2 through III-3-8.

```
@ASG,A                  RPIPRGCO.     . PROGRAM FILE
@MSG,N
@ASG,A                  RPITXTCO.     . ORIENTATION TEXT
@USE            SMEG.,RPITXTCO.
@MSG,N
@ASG,A                  DTACTL01.     . DATA SET VALUES
@USE              DSID.,DTACTL01.
@ASG,A                  DTACTL02.     . UNPROGRAMED UNIT PARAMETERS
@USE                AP.,DTACTL02.
@ASG,A                  DTACTL03.     . BILLPAYER UNIT PARAMETERS
@USE                BP.,DTACTL03.
@MSG,N
@ASG,A                  RPICTL01      . FISCAL YEAR SELECTION
@USE            RATEYR.,RPICTL01.
@ASG,A                  RPICTL02.     . MACOM SET SELECTION
@USE              RMAC.,RPICTL02.
@ASG,A                  RPICTL03.     . SINGLE FISCAL YEAR
@USE            RACTYR.,RPICTL03.
@ASG,A                  RPICTL04.     . SINGLE MACOM
@USE            REDISM.,RPICTL04.
@MSG,N
@ASG,A                  DSTCTL01.     . RATING POOL CRITERIA
@USE              POOL.,DSTCTL01.
@ASG,A                  DSTCTL02.     . UNIT RATING VALUES
@USE             CRATE.,DSTCTL02.
@MSG,N
@ASG,A                  RPITYP01.     . DATA SET PROTOSTREAM - MLT
@USE            TAPE-1.,RPITYP01.
@ASG,A                  RPITYP02.     . DATA SET PROTOSTREAM - CHG
@USE            TAPE-2.,RPITYP02.
@ASG,A                  RPITYP03.     . DATA SET PROTOSTREAM - NON
@USE            TAPE-3.,RPITYP03.
@ASG,A                  RPITYP04.     . RATING PROTOSTREAM - FY
@USE     ASSMT-RTG-1.,RPITYP04.
@ASG,A                  RPITYP05.     . RATING PROTOSTREAM - CMD
@USE     ASSMT-RTG-2.,RPITYP05.
@ASG,A                  RPITYP06.     . DISTR PROTOSTREAM - FY
@USE    ASSMT-REDIS1.,RPITYP06.
@ASG,A                  RPITYP07.     . DISTR PROTOSTREAM - CMD
@USE    ASSMT-REDIS2.,RPITYP07.
@MSG,N
@ASG,A                  MTORUNCO.     . F-DATE RUN FILE
@USE      START-FILE.,MTORUNCO.
@MSG,N
@XQT RPIPRGCO.705-RPI
```

Figure III-3-1. Request Processor Runstream

SECTION 3. DESCRIPTION OF RUNS

3.1. Request Processor Runstream

The Request Processor is invoked with a command (see Part II - User Manual, paragraph 3.3) which calls on a runstream which loads the appropriate files and machine code which then brings up the first screen of the processor. The runstream which performs this operation is shown in Figure III-3-1.

2.5. Processing Overview

The Request Processor is a special utility program which calls designed computer-generated full screens. These screens are designed to prompt the user for selected groups of information, check the validity of the entries, and then pass the information to a file for subsequent access by the E-DATE Model.

2.6. Security and Privacy

2.6.1. Security

The Request Processor code is UNCLASSIFIED. The files generated by the processor are at most CONFIDENTIAL. However, these files are both generated and employed internal to the computer system and are totally transparent to the user. See previous para 2.4, for the identification of these files.

2.6.2. Privacy

Not applicable.

2.4. File Inventory

2.4.1. Input Files

Table III-2-1. Request Processor Files (Input)

File	Classification	Content
MTOE*RP1TYPØ1	UNCLASSIFIED	Proto-runstream - multiple units
MTOE*RP1TYPØ2	UNCLASSIFIED	Proto-runstream - changed units
MTOE*RP1TYPØ3	UNCLASSIFIED	Proto-runstream - unprogramed units
MTOE*RP1TYPØ4	UNCLASSIFIED	Proto-runstream - rating by FY
MTOE*RP1TYPØ5	UNCLASSIFIED	Proto-runstream - rating by MACOM
MTOE*RP1TYPØ6	UNCLASSIFIED	Proto-runstream - distribution one FY
MTOE*RP1TYPØ7	UNCLASSIFIED	Proto-runstream - distribution one MACOM

2.4.2. Output Files

Table III-2-2. Request Processor Files (Output)

File	Classification	Content
MTOE*DTACTLØ1	UNCLASSIFIED	Data set selection
MTOE*DTACTL22	CONFIDENTIAL	Prototype Unit selection
MTOE*DTACTLØ3	UNCLASSIFIED	Billpayer Unit selection
MTOE*DTACTLØ4	CONFIDENTIAL	Special Unit selection
MTOE*RTGCTLØ1	UNCLASSIFIED	Rating by FY selection
MTOE*RTGCTLØ2	UNCLASSIFIED	Rating by MACOM selection
MTOE*DSTCTLØ1	CONFIDENTIAL	Distribution by one FY selection
MTOE*DSTCTLØ2	UNCLASSIFIED	Distribution by one MACOM selection

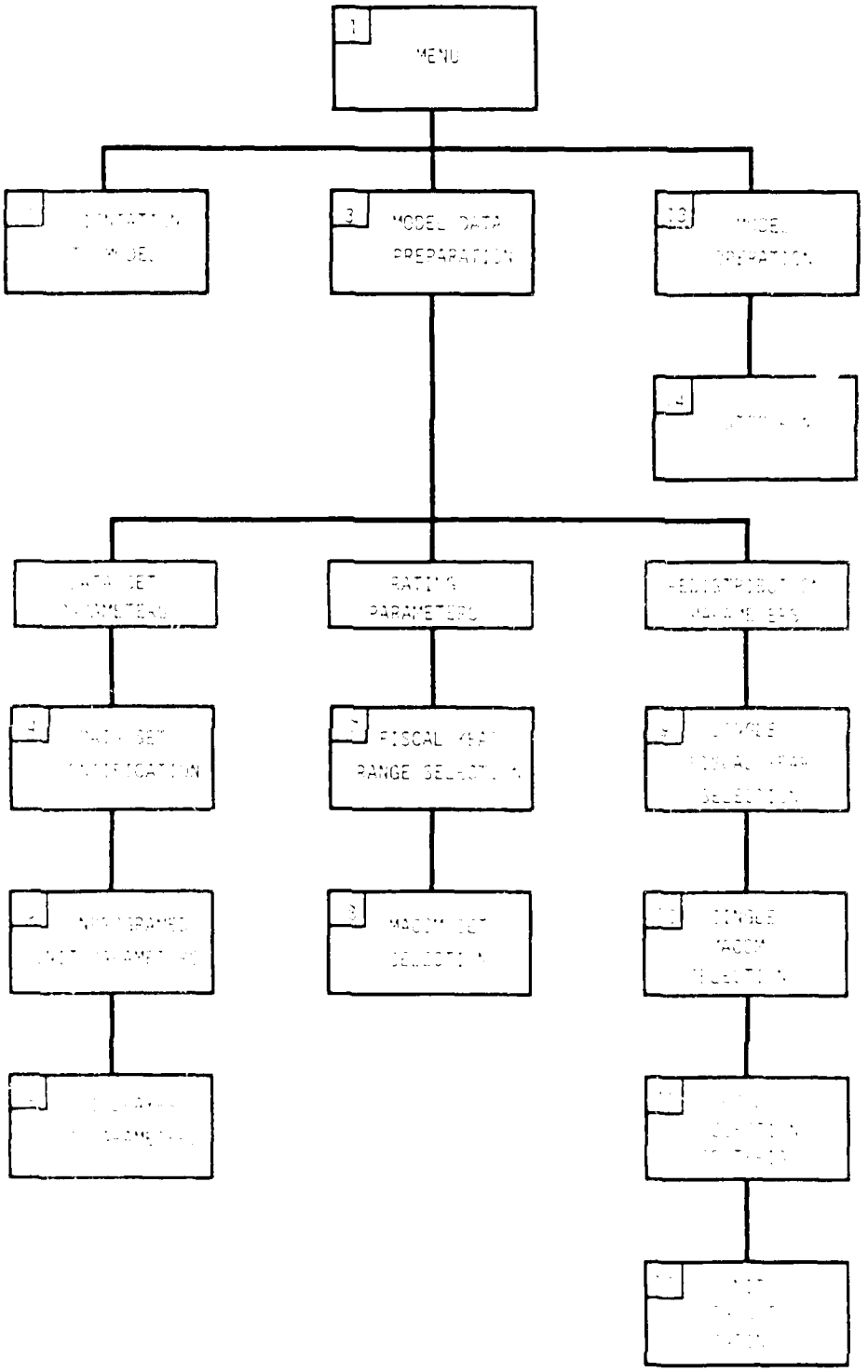


Figure III-2-1. Request Processor Screens

l. The UNIT TARGET RATING Screen (#12) allows the user to select the C-ratings to be associated with particular uprated and downrated units.

m. The MODEL OPERATION Screen (#13) allows the user to "start" or "stop" the E-DATE Model in any of its several modes of operation.

n. The STOP RUN Screen (#14) is automatically generated by the processor each time the user selects the "stop run" option on Screen #13. It displays the job identification of the run to be terminated. It also displays the AUTOVON number of the LEA computer operator to be contacted to take the action to terminate the run.

2.3 Program Inventory

There is a simple program associated with the Request Processor designated MTOE*RP1PRG44.

```
                                                    . LEA COPIES
                                                    . PLF COPIES
                                                    . PRINT FILE IN LIEU OF WRITE-A
                                                    . LEA COPY
                                                    . PLF COPY
                                                    . PICKED UNIT OUTPUT TAPE
                                                    . SKIPPED UNIT OUTPUT FILE
                                                    . PRINT FILE IN LIEU OF WRITE-A
                                                    . LEA COPIES
```

Figure III-3-6. Prototype Runstream - RP1TYPØ5
(page 2 of 3 pages)

```
                                        *
                                        *
                                        *

.X.T     FP2PRGCC.765-FP2
.DE.IMD  FP2PIK20.
.F.EL    FP2SKP2C.
.F.EE    FP2.RT2C.
.MSG,N
.SYM,U   FP2.RT2F.              . LLA COPIES
.SYM,U   FP2SKP2C.
.MSG,N
.SYM,U   FP2.RT2F.,,,SQQ3P3   . PLF COPIES
.SYM,U   FP2SKP2C.,,,SQQ3P3
.MSG,N
.TITLE,FD  E-DATE,RTGCMD,AP-BAR,
.A.G,A   AP2.RT2C.              . PRINT FILE IN LIEU OF .RIT.
.DSE      7,FP1PIK2C
.DSE     29,AP2.RT2C.
.RS    2.,19.,2C.,21.,22.,23.,24.,25.,2F.,27.,2*.,3*.
.X.T     AP2PRGCC.765-AP2-BAS
.MSG,N
.DE.IMD   FP2PIK2C.
.F.EL    AP2.RT2C.
.MSG,N
.SYM,U   AP2.RT2C.              . LLA COPY
.MSG,N
.SYM,U   AP2.RT2F.,,,SQQ3P3   . PLF COPY
.Z
.FIN
!*
```

Figure III-3-6. Prototype Runstream - RP1TYPØ5
(page 3 of 3 pages)

```
..
.*$A     DSTEYP,JOSYP1,,?LO,IEDI
.JOBTLE,FD  E-DATE,USIFYP,
.*$C,T   2.                          . LOCAL CONTROL FILE
.*$C,*
.*$C,T   7.                          . UNSORTED TRIAL RATINGS
.*$C,*
.*$C,T   11.,F///SUCCD              . MODE 1 ITEM RATINGS
.*$C,T   12.,F///SUCFC              . MODE 2 ITEM RATINGS
.*$C,T   13.,F///SUCMC              . MODE 3 ITEM RATINGS
.*$C,*
.*$C,T   4.                          . SORTED TRIAL RATINGS
.*$C,T   18.                         . PADDED TRIAL RATINGS
.*$C,*
.*$C,T   19.                         . SORTED ADJUSTED QUANTITIES
.*$C,T   2?.                         . UNSORTED ADJUSTED QUANTITIES
.*$C,*
.*$C,T   21.                         . FY 1 RATING FILE
.*$C,T   22.                         . FY 2 RATING FILE
.*$C,T   23.                         . FY 3 RATING FILE
.*$C,T   24.                         . FY 4 RATING FILE
.*$C,T   25.                         . FY 5 RATING FILE
.*$C,T   26.                         . FY 6 RATING FILE
.*$C,T   27.                         . FY 7 RATING FILE
.*$C,*
.*$C,T   28.                         . SORTED RATING FILE
.*$C,T   30.                         . COMPOSITE RATING FILE
.*$C,*
..
.JOBTLE,FD  E-DATE,USIFYP,AF-FY1,
.*$C,A   DSTCTL,,                    . USER UNIT RATINGS
.*$C,A   AP.IN#.1.                   . BASE CASE ITEM RATINGS
.*$C,A   AP.UAS.1.                   . BASE CASE UNIT RATINGS
.*$C,*
.*$F     ',DSTCTL 2
.*$F   1?,AP.UAS.1
.*$C,*
.*$C,A   DTLCTL,1.                   . USER DATA SET SELECTION
.*$LIT     2. 1 4
..
```

Figure III-3-7. Prototype Runstream - RP1TYPØ6
(page 1 of 3 pages)

```
.IF,U  2.
ASG  DSTCTL01.                    . USER POOL CRITERIA
.FAT
.NOC,N
.*T  AP2PH000.705-AP2-TBL
.RSEC   AP2WRT21.
.MOC,N
.SYM,U  AP2WRT21.                 . LFA COPY
.NOG,N
.SYM,U  AP2WRT21.                 . PLF COPY
.*
.TITLE,FD  E-DATE,USTFYR,AP-FY2.
.ASG,A  DSTCTL02                  .  SLR UNIT RATINGS
.ASG,A  AP2IRP22.                 . BASE CASE ITEM RATINGS
.ASG,A  AP2BAS22.                 . BASE CASE UNIT RATINGS
.MOC,N
.RSEC   ,DSTCTL02
.RSEC   10,AP2BAS22
.MOC,N
.FIL,R  RTGCTL01.                 . USER DATA SET SELECTION
.FCII   2. 5 8
.*
.IF,U  2.
ASG  DSTCTL01.                    . USER POOL CRITERIA
.FAT
.NOC,N
.*T  AP2PH001.705-AP2-TBL
.RSEC   AP2WRT21.
.MOC,N
.SYM,U  AP2WRT21.                 . LFA COPY
.NOG,N
.SYM,U  AP2WRT21.                 . PLF COPY
.*
.TITLE,FD  E-DATE,USTFYR,AP-FY3,
.ASG,A  DSTCTL02                  . USER UNIT RATINGS
.ASG,A  AP2IRP23.                 . BASE CASE ITEM RATINGS
.ASG,A  AP2BAS23.                 . BASE CASE UNIT RATINGS
.MOC,N
.RSEC   ,DSTCTL02
.RSEC   10,AP2BAS23
```

Figure III-3-7. Prototype Runstream - RPITYP06
(page 2 of 3 pages)

```
                                                    • PLF COPY
                                                    • USER UNIT RATINGS
                                                    • BASE CASE ITEM RATINGS
                                                    • BASE CASE UNIT RATINGS
                                                    • USER DATA SET SELECTION
                                                    • USER POOL CRITERIA
                                                    • LFA COPY
                                                    • PLF COPY
```

Figure III-3-7. Prototype Runstream - RP1TYPØ6
(page 3 of 3 pages)

```
.RUN    ...STCMD,...DEV:1,,720,1000

.TITLE,FE  E-GATE,USTCMD,CMD-STE,
.IF,*   ********************************************************
.IF,*   *                                                      *
.IF,*   *   E-GATE MODEL DOES NOT SUPPORT REDISTRIBUTION       *
.IF,*   *  AMONG UNITS IMPACTED BY CTU (IE CHANGED UNITS)      *
.IF,*   *                                                      *
.IF,*   ********************************************************

.TITLE,FU  E-GATE,USTCMD,CMD-EUP,
.IF,*   ********************************************************
.IF,*   *                                                      *
.IF,*   *   E-GATE MODEL DOES NOT SUPPORT REDISTRIBUTION       *
.IF,*   *  AMONG UNITS IMPACTED BY CTU (IE CHANGED UNITS)      *
.IF,*   *                                                      *
.IF,*   ********************************************************

.TITLE,FC  E-GATE,USTCMD,CMD-KOR,
.IF,*   ********************************************************
.IF,*   *                                                      *
.IF,*   *   E-GATE MODEL DOES NOT SUPPORT REDISTRIBUTION       *
.IF,*   *  AMONG UNITS IMPACTED BY CTU (IE CHANGED UNITS)      *
.IF,*   *                                                      *
.IF,*   ********************************************************

.TITLE,FE  E-GATE,USTCMD,CMD-PAC,
.IF,*   ********************************************************
.IF,*   *                                                      *
.IF,*   *   E-GATE MODEL DOES NOT SUPPORT REDISTRIBUTION       *
.IF,*   *  AMONG UNITS IMPACTED BY CTU (IE CHANGED UNITS)      *
.IF,*   *                                                      *
.IF,*   ********************************************************

.TITLE,FD  E-GATE,USTCMD,CMD-ALA,
.IF,*   ********************************************************
.IF,*   *                                                      *
.IF,*   *   E-GATE MODEL DOES NOT SUPPORT REDISTRIBUTION       *
.IF,*   *  AMONG UNITS IMPACTED BY CTU (IE CHANGED UNITS)      *
```

Figure III-3-8. Prototype Runstream - RP1TYP07
(page 1 of 3 pages)

```
.MSG,N  *                                                              *
.MSG,N  ***************************************************************
$I
.TITLE,FD  E-DATE,DSICMD,CMD-HAN,
.MSG,N  ***************************************************************
.MSG,N  *                                                              *
.MSG,N  *   E-DATE MODEL DOES NOT SUPPORT REDISTRIBUTION               *
.MSG,N  *  AMONG UNITS IMPACTED BY CTU (IE CHANGED UNITS)             *
.MSG,N  *                                                              *
.MSG,N  ***************************************************************
$I
.TITLE,FD  E-DATE,DSICMD,CMD-PAN,
.MSG,N  ***************************************************************
.MSG,N  *                                                              *
.MSG,N  *   E-DATE MODEL DOES NOT SUPPORT REDISTRIBUTION               *
.MSG,N  *  AMONG UNITS IMPACTED BY CTU (IE CHANGED UNITS)             *
.MSG,N  *                                                              *
.MSG,N  ***************************************************************
$I
.TITLE,FD  E-DATE,DSICMD,CMD-FC,
.MSG,N  ***************************************************************
.MSG,N  *                                                              *
.MSG,N  *   E-DATE MODEL DOES NOT SUPPORT REDISTRIBUTION               *
.MSG,N  *  AMONG UNITS IMPACTED BY CTU (IE CHANGED UNITS)             *
.MSG,N  *                                                              *
.MSG,N  ***************************************************************
$I
.TITLE,FD  E-DATE,DSICMD,CMD-TC,
.MSG,N  ***************************************************************
.MSG,N  *                                                              *
.MSG,N  *   E-DATE MODEL DOES NOT SUPPORT REDISTRIBUTION               *
.MSG,N  *  AMONG UNITS IMPACTED BY CTU (IE CHANGED UNITS)             *
.MSG,N  *                                                              *
.MSG,N  ***************************************************************
$I
.TITLE,FD  E-DATE,DSICMD,CMD-CTH,
.MSG,N  ***************************************************************
.MSG,N  *                                                              *
.MSG,N  *   E-DATE MODEL DOES NOT SUPPORT REDISTRIBUTION               *
.MSG,N  *  AMONG UNITS IMPACTED BY CTU (IE CHANGED UNITS)             *
```

Figure III-3-8. Prototype Runstream - RP1TYPØ7
(page 2 of 3 pages)

```
.MSG,N  *                                                              *
.MSG,N  ***************************************************************
.*
.TITLE,FD  E-DATE,USTCMD,CMD-NC,
.MSG,N  ***************************************************************
.MSG,N  *                                                              *
.MSG,N  *   E-DATE MODEL DOES NOT SUPPORT REDISTRIBUTION               *
.MSG,N  *  AMONG UNITS IMPACTED BY CTU (IE CHANGED UNITS)             *
.MSG,N  *                                                              *
.MSG,N  ***************************************************************
.*
.TITLE,FD  E-DATE,USTCMD,CMD-AR,
.MSG,N  ***************************************************************
.MSG,N  *                                                              *
.MSG,N  *   E-DATE MODEL DOES NOT SUPPORT REDISTRIBUTION               *
.MSG,N  *  AMONG UNITS IMPACTED BY CTU (IE CHANGED UNITS)             *
.MSG,N  *                                                              *
.MSG,N  ***************************************************************
.*
.TITLE,FD  E-DATE,USTCMD,CMD-DAR,
.MSG,N  ***************************************************************
.MSG,N  *                                                              *
.MSG,N  *   E-DATE MODEL DOES NOT SUPPORT REDISTRIBUTION               *
.MSG,N  *  AMONG UNITS IMPACTED BY CTU (IE CHANGED UNITS)             *
.MSG,N  *                                                              *
.MSG,N  ***************************************************************
.*
.FIN
```

Figure III-3-8. Prototype Runstream - RP1TYP07
(Page 3 of 3 pages)

3.3. E-DATE Model Runstream

The E-DATE Model runstream consists of the ECL, derived from the prototype runstream, associated with an execution of one or two of the E-DATE Model processors to meet a particular user requirement for E-DATE Model operation. There are three basic types of E-DATE Model operation as follows.

3.3.1. Data Set Generation

The E-DATE Model processes data from the TAEDP into separate data set files. An example of this runstream is shown in Figure III-3-9.

3.3.2. Unit Equipment Rating

The E-DATE Model processes a particular data set file and computes the rating of each unit present, for each fiscal year present, and processes the results into a unit equipment rating file. An example of this runstream is shown in Figure III-3-10.

3.3.3. Unit Equipment Redistribution

The E-DATE Model processes the data from a particular unit equipment rating file and redistributes the equipment assets to achieve a prescribed mix of unit ratings among the units present in the file. An example of this runstream is shown in Figure III-3-11.

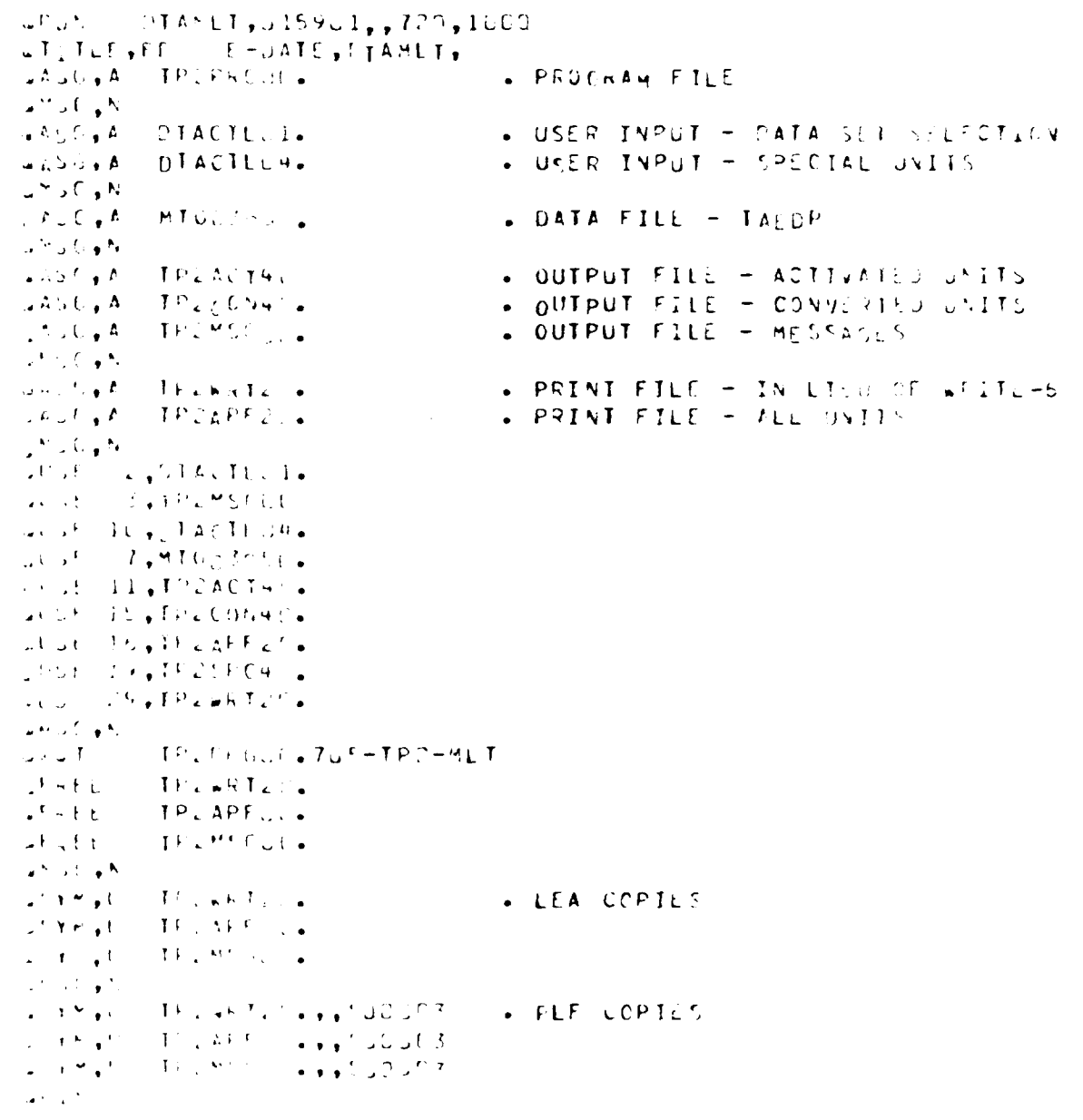


Figure III-3-9. Runstream Example - Data Set Generation

```
$RUN     RTGFY8,,100,01,777,1000
$FILE,FD  E-DATE,,TGFY8,
$ASG,A   TP,ACT4.                . ACTIVATED UNIT DATA FILE (INPUT)
$ASG,A   TP,UNP4.                . UNPROGRAMED UNIT DATA FILE (INPUT)
$ASG,A   TP,CON4.                . CONVERTED UNIT DATA FILE (INPUT)
$ASG,A   TP,SPC4.                . SPECIAL UNIT DATA FILE (INPUT)
$ASG,T    2.                     . LOCAL CONTROL FILE
$ASG,T    3.                     . UNIT ID AND RECORD TYPE COUNTS
$ASG,T   11.,F///1000            . FP-FY1 UNIT EQUIPMENT RECORDS
$ASG,T   12.,F///1000            . FP-FY2 UNIT EQUIPMENT RECORDS
$ASG,T   13.,F///1000            . FP-FY3 UNIT EQUIPMENT RECORDS
$ASG,T   14.,F///1000            . FP-FY4 UNIT EQUIPMENT RECORDS
$ASG,T   15.,F///1000            . FP-FY5 UNIT EQUIPMENT RECORDS
$ASG,T   16.,F///1000            . FP-FY6 UNIT EQUIPMENT RECORDS
$ASG,T   17.,F///1000            . FP-FY7 UNIT EQUIPMENT RECORDS
$ASG,T   21.,F///1000            . FP-SORT & AP-FY1 RATING FILE
$ASG,T   22.                     . AP-FY2 RATING FILE
$ASG,T   23.                     . AP-FY3 RATING FILE
$ASG,T   24.                     . AP-FY4 RATING FILE
$ASG,T   25.                     . AP-FY5 RATING FILE
$ASG,T   26.                     . AP-FY6 RATING FILE
$ASG,T   27.                     . AP-FY7 RATING FILE
$ASG,T   28.                     . SORTED RATING FILE
$ASG,T   36.                     . COMPOSITE RATING FILE
$FILE,FD  E-DATE,RTGFY8,FP-FY1,
$ASG,A   FP,PIC2.                . PICKED UNIT OUTPUT TAPE
$ASG,A   FP,SKP2.                . SKIPPED UNIT OUTPUT FILE
$ASG,A   FP,PRT2.                . PRINT FILE IN LIEU OF WRITE-E
$LOG     16,FP,PRT
$LOG     20,FP,PIK2
$LOG     29,FP,PRT2
$XQT     2.,3.,11.,12.,13.,14.,15.,16.,17.,21.
$FILE,M  RTGCTL.
$FILE,I   2. 1 4
$EOJ
$ASG,M   INPUT FILE ASSIGNED TO UNIT-7 DURING EXECUTION
$FILE,I   FP,PRT.
$FILE,IM  FP,PIC.
```

Figure III-3-10. Runstream Example - Unit Equipment Rating
(page 1 of 2 pages)

```
.[illegible]   FP2SKP2[illegible].
.[illegible]   FP2SRT2[illegible].
.*[illegible],N
.*YM,U  FP2SRT2[illegible].              . LEA COPIES
.*YM,U  FP2SKP2[illegible].
.*[illegible],N
.*YM,U  FP2SRT2[illegible],,,SUBSC3   . PLF COPIES
.*YM,U  FP2SKP2[illegible],,,SUBSC3
.*MSG,N
.TITLE,FD  E-DATE,RTGFYD,AP-FY1,
.ASC,A  AP2SRT2C.                        . PRINT FILE IN LIEU OF WRITER
.ASC,A  AP2IRB21.                        . FY1 ITEM RATING STAPLED - BASE CASE
.ASC,A  AP2SOR21.                        . FY1 WORKSHEET - BASE CASE
.ASC,A  AP2BAS21.                        . FY1 UNIT RATING FILE - BASE CASE
.IF 1
  7,FP1PIK2C
.ELSE
  8,AP2SRB2.
.ENDIF
  10,AP21RB21
.IF 1
  16,AP2SAS21
.ENDIF
  29,AP2SRT2C.
.RS    2.,19.,20.,21.,22.,23., 4.,25.,6.,7.,28.,9.
.IF    AP2PRGCD.7GE-AP2-BAS
.MSG,N
.PGEXIMG   FP2PIK2C.
.IF1[illegible]   AP2SRT2C.
.IF1[illegible]   AP2IRB21.
.IF1[illegible]   AP2SOR21.
.IF1[illegible]   AP2BAS21.
.ASC,A
.*YM,U  AP2SRT2C.                        . LEA COPIES
.*YM,U  AP2SOR21.
.*MSG,A
.*YM,U  AP2SRT2[illegible],,,SUBSC3   . PLF COPIES
.*YM,U  AP2SOR21.,,SUBSC3
.FIN
```

Figure III-3-10. Runstream Example - Unit Equipment Rating
(page 2 of 2 pages)

```
. JA     ESTFY5,1ES>31,,725,1030
,ITLE',FD  E-DATE,ESTFY',
,A5(,T  2.                          . LOCAL CONTROL FILE
,A(,N
,A(,T  3.                           . UNSORTED TRIAL RATINGS
,A(,N
,A(,T  11.,F////,(,(                . MODE 1 ITEM RATINGS
,A(,T  1 .,F////,(,(                . MODE 2 ITEM RATINGS
,A(,T  1 .,F////,(,(                . MODE 3 ITEM RATINGS
,A(,N
,A(,T  4.                           . SORTED TRIAL RATINGS
,A(,T  1.                           . PAIRED TRIAL RATINGS
,A(,N
,A(,T  19.                          . SORTED ADJUSTED QUANTITIES
,A(,T  2.                           . UNSORTED ADJUSTED QUANTITIES
,A(,N
,A(,T  21.                          . FY 1 RATING FILE
,A(,T  22.                          . FY 2 RATING FILE
,A(,T  23.                          . FY 3 RATING FILE
,A(,T  24.                          . FY 4 RATING FILE
,A(,T  25.                          . FY 5 RATING FILE
,A(,T  26.                          . FY 6 RATING FILE
,A(,T  27.                          . FY 7 RATING FILE
,A(,N
,A(,T  28.                          . SORTED RATING FILE
,A(,T  3.                           . COMPOSITE RATING FILE
,A(,N
,ITLE',FD  E-DATE,,ESTFY5,AP-FY1,
,A(,A  ,ESICTL,2'                   . USER UNIT RATINGS
,A(,A  AP,IBAS1.                    . BASE CASE ITEM RATINGS
,A(,A  AP,BAS1.                     . BASE CASE UNIT RATINGS
,A(,N
,A(    ,,ESICTL,2
,A(    ,,AP,BAS,1
,A(,N
,A(,N  ,RICTL,1.                    . USER DATA SET SELECTION
,A(II    ,,1,4
```

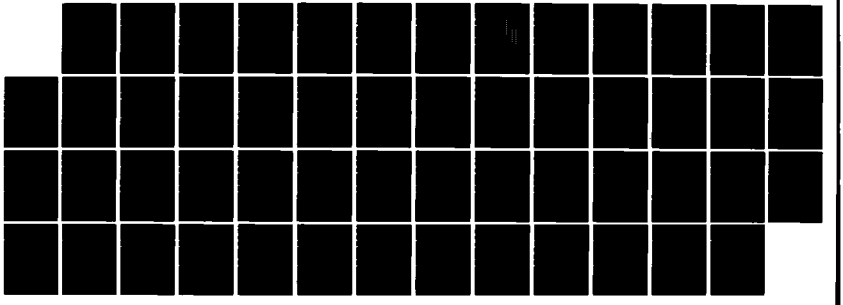
Figure III-3-11. Runstream Example - Unit Equipment Distribution
(page 1 of 2 pages)

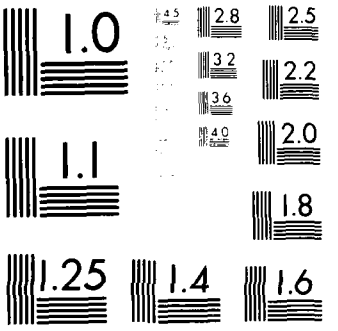
```
                                                    . USER TOOL CRITERIA
                                                    . LFA COPY
                                                    . PLF COPY
```

Figure III-3-11. Runstream Example - Unit for Document Distribution
(Page 2 of 2 pages)

AD-A156 922 EFFECTIVE DATE (E-DATE) MODEL DOCUMENTATION REQUEST PROCESSOR(U) ARMY CONCEPTS ANALYSIS AGENCY BETHESDA MD J J CONNELLY ET AL. MAY 85 CAA-D-85-7 2/2

UNCLASSIFIED F/G 12/1 NL





MICROCOPY RESOLUTION TEST CHART

PART IV - PROGRAM MAINTENANCE MANUAL

SECTION 1. GENERAL DESCRIPTION

1.1. Purpose of Program Maintenance Manual

This Program Maintenance Manual for the Request Processor supplements the Program Maintenance Manual for the E-DATE Model (ref. 1.2a(4). It presumes reader familiarity with the E-DATE Model Program Maintenance Manual and is to provide the maintenance programer with the information necessary to effectively maintain the processor.

1.2. Project References

a. Effective Date (E-DATE) Model Documentation, CAA-D-85-6, US Army Concepts Analysis Agency, Bethesda, MD, May 1985.

(1) Volume I - Functional Description

(2) Volume II - User's Manual

(3) Volume III - Computer Operation Manual

(4) Volume IV - Program Maintenance Manual

b. Management of MTOE Effective Dates Based on Equipment Availability (MTO Dates), CAA-SR-83-3, US Army Concepts Analysis Agency, Bethesda, MD, July 1983.

c. Effective Date (E-DATE) Model Enhancement, CAA-SR-84-17, US Army Concepts Analysis Agency, Bethesda, MD, July 1984.

1.3. Terms and Abbreviations

See Glossary.

SECTION 2. SYSTEM APPLICATION

2.1. System Description

The E-DATE Model can be used by the logistics staff officer to assess unit readiness based on equipment availability. This information enables an officer to make a judgment as to whether or not a unit is capable of fulfilling its mission.

E-DATE consists of three processors:

- Tape Processor - retrieves data from TAEDP for selected units
- File Processor - extracts data for the selected units and reformats the data for the Assessment Processor
- Assessment Processor - calculates unit readiness using the unit rating criteria defined by AR 220-1

These processors must be executed in the sequence given above with appropriate data sets to achieve the desired readiness calculations and results. A fourth processor, the Request Processor, provides the logistics staff officer a means to run the first three processors individually or in combination with each other.

The Request Processor places emphasis on building data files necessary to run the other processors rather than the user getting involved in the technical aspects of computer operations, although a minimal acquaintance with the computer system and model operation is required.

The Request Processor provides the officer with a series of screens to build data files. From the starting (menu) screen, the user is prompted for inputs which lead to additional screens that request additional input from the user. The Request Processor has been designed to enable the logistics staff officer to generate all the data files necessary to execute any one of the E-DATE processors in a single terminal session or to update individual screens before running a processor. Screen input is checked for valid entries. Error messages are generated for invalid entries, and the user is prompted to reenter correct values for invalid entries.

2.2. Security and Privacy

2.2.1 Security

The Request Processor is UNCLASSIFIED. The files generated by the processor are at most CONFIDENTIAL. However, these files are both generated and employed internal to the computer system and are totally transparent to the user. See Part III - Computer Operation Manual, for the identification of these files.

2.2.2. Privacy

Not applicable.

2.3. General Description

The Request Processor is organized around three types of screens:

- Model Orientation
- Model Data Preparation
- Model Operation

Screens are generated through the use of the Sperry UNIVAC Display Processing System (DPS). DPS enables a user to utilize the capabilities of a terminal without having knowledge of the terminal's detailed characteristics.

The present version of DPS creates code to construct a screen based on the COBOL language. This code is incorporated into the working-storage section of a COBOL program. Each screen has its own COBOL program that validates user input data given by the screen and prompts the user for additional entries, if appropriate.

The Request Processor has 1 main program and 12 subprograms. Each of these programs is explained more fully in the Program Description, subsection 2.4. An initial screen (menu) guides the user to one of the three types of screens given above. The interrelationship of all the screens is displayed in Figure IV-2-1.

The functions of the Model Orientation Screen are to:

- Provide the user with a general orientation to the E-DATE Model.
- Define the use of the end-of-screen actions available to the user--Continue, Exit, and Stop.

The functions of the Model Data Preparation screens are to:

- Allow the user to create new data files for the execution of the E-DATE processors at the beginning of a planning cycle.
- Enable the user to update data files within a planning cycle by adding additional data items to a particular file or editing existing data items.

- Give the user a choice of inputting data through the selection of a single screen or a series of screens based upon one of three data preparation sequences. The three sequences as defined by Screen #3 are Data Set Parameters, Rating Data Parameters, and Redistribution Data Parameters.

The functions of the Model Operation Screen are to:

- Permit the user to select the type of processing desired.
- Schedule the processing for execution through the selection of the Start Run option.
- Allow the user to terminate processing by selecting the Stop Run option.

The following conventions have been utilized throughout the following pages in discussing the Request Processor programs.

- All of the screens displayed in Figure IV.2.1. have been numbered for ease of reference from 1 to 14. The screen's number appears in the upper left-hand corner of the process boxes. The name in each process box refers to the name of the screen as it appears on the DP terminal.
- Bullets (•) and indentations are utilized in the "Processing" section of each Program Description to designate programing levels. Each margin (indentation) with a bullet starting the line will represent a deeper level of detail in the code.
- The definition of the various action choices available to the user on each screen will be explained under the program description for that screen.
- The screen number for each program in the program description will be given in parentheses following the name of the program. This is the same number given in the upper left-hand corner of the process boxes on the System Flow Diagram, Figure IV-2-1.

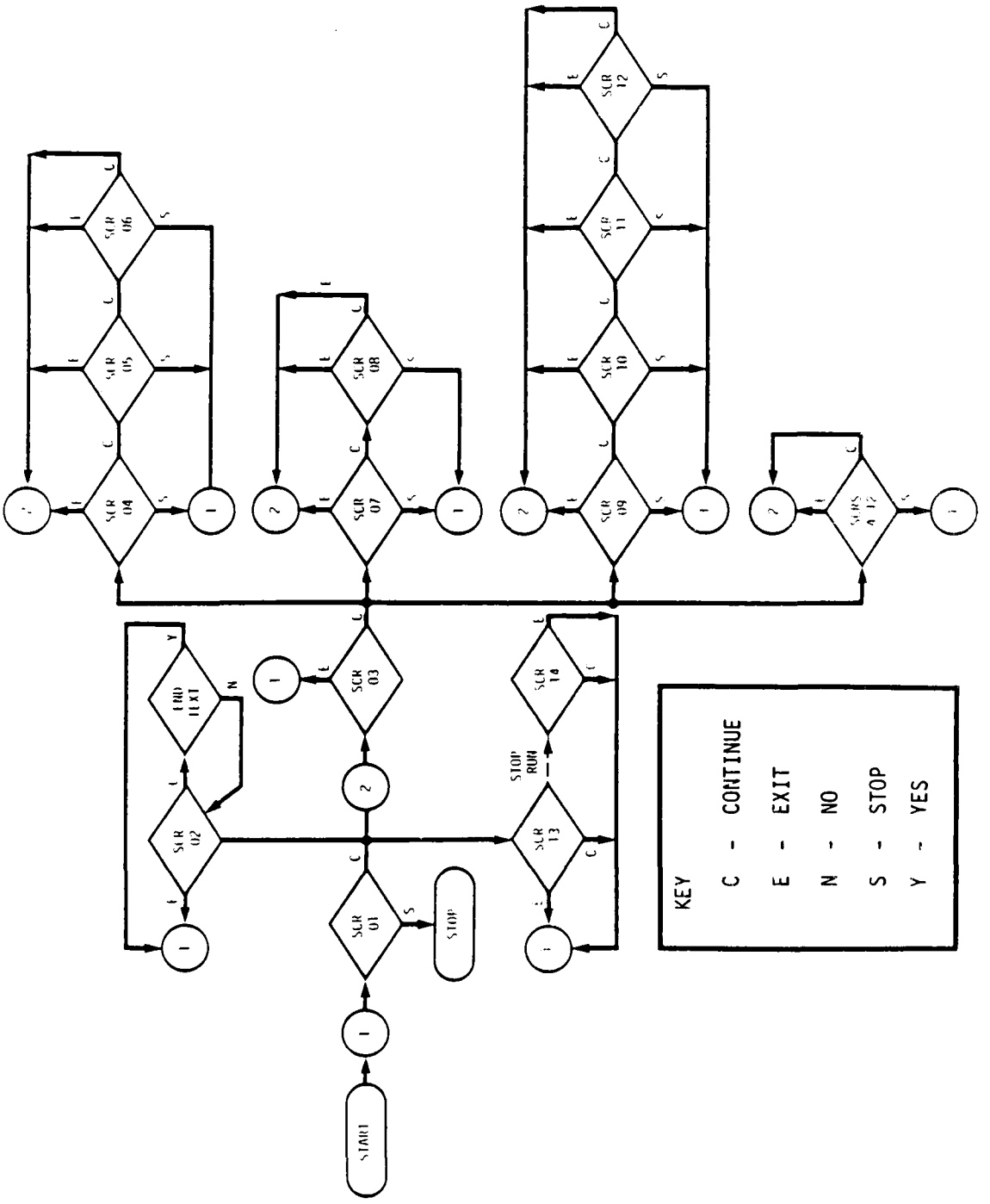


Figure IV-2-1. System Flow Diagram

2.4. Program Description - Request Processor

This subsection contains a description of all the program units for the Request Processor, the main program, and the 12 associated subprograms. A complete listing of all the program units is given below.

Paragraph number	Program unit
2.4.1	SELCT-SCREEN
2.4.2	EME-GUIDE
2.4.3	EME-PREP
2.4.4	DSET-ID
2.4.5	DSET-NPUTS
2.4.6	DSET-BPAYR
2.4.7	RATE-ACTYR
2.4.8	RATE-MACOM
2.4.9	REDI-YR
2.4.10	REDIS-MACOM
2.4.11	REDI-POOL
2.4.12	REDI-TARAT
2.4.13	EME-EXECUTE

Figure IV.2.2. provides a list of the variables contained in COBOL common storage and the linkage section cross-referenced by the programs that use these variables. These variables control the flow of screen processing within the Request Processor as follows:

- MSTATUS: It is given a value of "1" or "2" within the EME-PREP program. A status of "1" indicates that a new file is to be created from data entered on the screen referenced, while a status of "2" refers to the editing of a file previously created from the same screen.

- DP-CHOICE: This variable is set in EME-PREP and takes on a value ranging from 1 to 4. The first three values present the user with a series of screens within the areas of Data Set Parameters (screens 4-6), Rating Parameters (screens 7-8), and Redistribution Parameters (screens 9-12), respectively. A value of 4 indicates that the user has not selected a series, but a single screen.

- E-FLAG: It is set to an initial value of 0 in the main program SELCT-SCREEN. The value is set to 1 if the user selects STOP as his action choice on any particular screen. This choice will take the user back to the starting (menu) screen, and no data will be written for that screen's file.

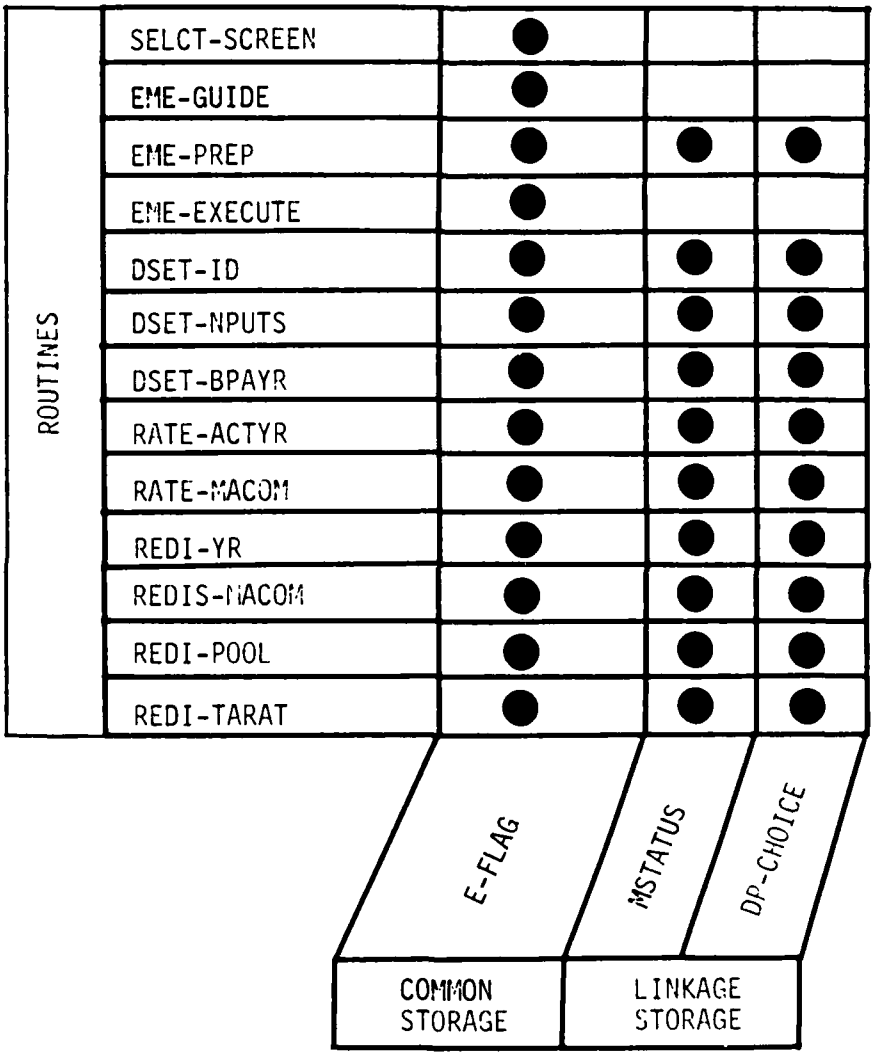


Figure IV-2-2. Common Block Cross References

2.4.1. Program Unit--SELCT-SCREEN

a. Identification

Request Processor--SELCT-SCREEN(1)

b. Functions

This program controls the running of the Request Processor. It has two main functions. The first function allows the user to select an activity organized around one of three types of screens:

- Model Orientation
- Model Data Preparation
- Model Operation

Secondly, it allows the individual to terminate the Request Processor.

c. Input

User input data from Screen #1.

d. Processing

The processing for SELCT-SCREEN is described as follows:

- User selects an activity that allows him to gain access to a series of screens in one of the above stated areas.
- User then selects action choice--continue or stop.
- The screen is read for user data.
- If multiple activities selected or no activity selection made:
  - Move error message to screen's MSG field.
  - Mark the fields on the screen in error by making them blink.
  - Resend screen to user for data reentry.
- If no action choice or multiple action choice made:
  - Move error message to screen's MSG field.

- Mark the fields on the screen in error by making them blink.
- Resend screen to user for data reentry.

- If action choice is "Continue" call next screen:
  - Call EME-GUIDE if Model Orientation choice made.
  - Call EME-PREP if Model Data Preparation choice made.
  - Call EME-EXECUTE if Model Operation choice made.
- If action choice is "stop" terminate Request Processor.

e. Output

None.

f. Interfaces

SELCT-SCREEN is the main program that controls access to all other screens. It is not called by any other program.

Calls to: EME-GUIDE
EME-PREP
EME-EXECUTE

g. Message Texts

- Initial: Select Next Action Below
- Error 1: No Activity Entry Made - Select One
- Error 2: Multiple Activity Entries Made - Select Only One
- Error 3: Multiple Action Entries Made - Select One
- Error 4: No Action Entry Made - Select One

h. Action Choice Definitions

- Continue - Call the next screen as determined by the user's activity choice.
- Stop - Terminate the Request Process in a normal manner.

2.4.2. Program Unit--EME-GUIDE

a. Identification

Request Processor--EME-GUIDE(2)

b. Functions

This subprogram reads a text file and displays the text on the screen for the orientation of the user to the Request Processor. The text file can be designed to discuss any aspect of the E-DATE Model.

c. Input

RPORENT.

d. Processing

The processing for EME-GUIDE is described as follows:

- Read text file.
- If LNKT is less than 17, move text line to screen.
- When LNKT equals 16, move initial message to MSG field.
- Send screen of text to user.
- Read screen for user's action choice.
- If no action choice or multiple action choice made:
  - Move error message to MSG field.
  - Mark the fields on the screen in error by making them blink.
  - Resend screen to user for data reentry.
- If action choice is "continue":
  - Send a new screen of text to user if not at end of text file.
  - Return user to main calling program if at end of text file.
- If action choice is "Exit," return user to main calling program.

e. Output

None.

f. Interfaces

Called by: SELCT-SCREEN.

g. Message Texts

- Initial: Select Next Action Below
- EOF: End of E-DATE Model Guide
- Error 1: Multiple Action Entries Made - Select One
- Error 2: No Action Entry Made - Select One

h. Action Choice Definitions

- Continue - It has two meanings for this screen:
  - The choice of "Continue" will present the user with additional screens of text orientation to the User Request Process until the end of the Text File is reached.
  - Once the last screen of text data is presented to the user, this choice will take the individual back to the main calling program SELCT-SCREEN.
- EXIT - "Exit" is used to return to the main calling program without completing all of the orientation screens to the Request Processor. The Text File is closed before exiting this subprogram.

2.4.3. Program Unit--EME-PREP

a. Identification

Request Processor--EME-PREP(3)

b. Functions

This subprogram allows the user to select a single screen or a series of screens to input data necessary for the execution of the E-DATE Model processors. The screens are numbered from 4 through 12 on the System Flowchart, Figure IV-2-1. The user also has the option of generating a new data file from the screen data or editing on existing file.

c. Input

User input data from screen #3.

d. Processing

The processing for EME-PREP is as follows:

- User selects a data preparation sequence or a particular data screen to input data for E-DATE Model processors.
- User selects type of processing desired for a screen:
  - If MSTATUS = "1" create a new data file.
  - If MSTATUS = "2" edit an existing data file.
- User selects an action choice - Continue or Exit.
- Edit checks are made for the data entered on the screen in the above areas.
- If an area contains no choices or more than a single choice:
  - Move appropriate error message to MSG field.
  - Mark the fields on the screen in error by making them blink.
  - Resend screen to user for data reentry.
- If action choice is "continue":
  - Call "DSET-ID" when DP-CHOICE = "1".

- Error 8: Multiple Data Set Selection Mode - Select One
- Error 9: Activated Units Not Selected On Screen #4
- Error 10: Changed Units Not Selected On Series #4
- Error 11: Unprogrammed Units Not Selected On Screen #4
- Error 12: Converted Units Not Selected On Screen #4
- Error 13: Special Units Not Selected On Screen #4
- Error 14: No Action Entries Made - Select Only One
- Error 15: Multiple Action Entries Made - Select Only One

h. Action Choice Definitions

- Continue - It has two meanings for this screen:
  - The next screen in the Rating Data Parameter sequence will be called if DP-CHOICE has a value of "1" after a valid FY range has been input by the user.
  - Return the user to EME-PREP (screen #3) if the value of DP-CHOICE = "4". This value indicates that an individual screen was being accessed and not a series of screens.
- Exit - This action takes the user back to screen #3 without checking the status of DP-CHOICE.
- Stop - The user is returned immediately to the main (menu) screen without writing any data to the RP1CTLØ1 file. The other two choices will always allow data to be written to the data file before terminating the screen.

- Only one data set type may be selected.

- If input fails edit checks:
  - Move appropriate error message to MSG field.
  - Mark the fields in error on the screen by making them blink.
  - Resend screen to user for data reentry.
- If action choice is "Continue":
  - Call "RATE-MACOM" if DP-CHOICE = "1".
  - Return user to EME-PREP (screen #3) if DP-CHOICE = "4".
- If action choice is "Exit" return user to EME-PREP irrespective of DP-CHOICE value.

e. Output

RP1CTLØ1 file.

f. Interfaces

Called by: EME-PREP

Calls to: RATE-MACOM

g. Message Texts

- Initial 1: Select Next Action Below
- Initial 2: File Ready For Editing - Reenter Corrected Values
- Error 1: Error In Reading Screen #4 File For Fiscal Year
- Error 2: No From FY Made - Select One
- Error 3: Multiple Selections Made - Select One
- Error 4: No To FY Selection Made - Indicate One
- Error 5: Multiple To FY Made - Select One
- Error 6: From FY Can't Exceed To FY - Reenter Choice
- Error 7: No Data Set Selected - Select One

2.4.7. Program Unit--RATE-ACTYR

a. Identification

Request Processor - RATE-ACTYR(7)

b. Functions

This subprogram allows the user to specify a range of fiscal years and type of units to be used by the File Processor for selecting units to be rated. A subset of the fiscal years in the TAEDP file may be selected rather than using all seven fiscal years. If the user specifies an FY range from 85 to 87, the File Processors will select units to be rated for each of the fiscal years within the FY range by taking units from the file generated by the Tape Processor according to the selected data set type, i.e., activated, changed, unprogramed, converted, or special units. The data set type selection on this screen must be one of the types generated from TAEDP on Screen #4. A unit may appear in only one of the years for the FY range. Each FY will cause one execution of the assessment processor to be run for rating units for all seven years of the planning cycle.

c. Input

User input data from screen #7.
Activation year range from RP1CTLØ1file.
First fiscal year of the TAEDP data file from DTACTLØ1.

d. Processing

- Obtain first fiscal year from DTACTLØ1 to set up the FY range on screen #7.
- Check value of MSTATUS:
  - If MSTATUS = "1" clear screen for new data input.
  - If MSTATUS = "2" read data file and present old data to user for editing.
- If action choice = "Stop" return user to the main calling program - screen #1.
- Edit data read from screen for "From FY" and "To FY" years:
  - A fiscal year must be selected for each column.
  - The "From FY" value must be less than or equal to the "To FY" value.

- Exit - This choice takes the user back to EME-PREP without prompting him for more data input or presenting additional data from the DTACTLØ3 file for editing.

- Stop - The user is returned immediately to the main (menu) screen without writing any data from the screen to the data file. The other two choices will always allow data to be written to the output file before terminating the screen.

- Error 5: Illegal UIC Type - Reenter UIC
- Error 6: Illegal SRC Type - Reenter SRC
- Error 7: Illegal TOE Entry - Reenter TOE
- Error 8: MACOM Field Blank - Reenter MACOM Code
- Error 9: Invalid MACOM Code - Reenter MACOM Code
- Error 10: ALO Field Blank - Enter Valid ALO Code
- Error 11: Invalid ALO Code - Reenter Code
- Error 12: Branch Field Blank - Enter Valid Code
- Error 13: Invalid BR Code - Enter Code
- Error 14: DAMPL Blank - Enter Numeric Value
- Error 15: DAMPL Values Not Numeric - Reenter Value
- Error 16: Low DAMPL Value Out Of Range - Reenter Value
- Error 17: High DAMPL Value Out Of Range - Reenter Value
- Error 18: Incorrect DAMPL Range - Reenter Values
- Error 19: No Action Entry Made - Select Only One
- Error 20: Multiple Action Entries Made - Select Only One

h. Action Choice Definitions

- Continue - It has two meanings for this screen:
  - Additional blank screens are sent to the user after data on the screen passes all edit checks and is stored in array BP-PARMS during file creation. Continue will keep the user within screen #6 for data input up to 99 entries. When editing an existing file, this action choice will cycle the user through several screens of data until the end of file is reached.
  - The user is returned to EME-PREP (screen #3) at the end of data input or file editing since this is the last screen in the data set parameter sequence.

- Check DAMPL values (DAMPL RANGE) to ensure that the entries for a unit go from a lower to higher value or both entries have the same value.
- If user input fails edit checks:
  - Move appropriate error message to MSG field.
  - Mark the fields on the screen in error by making them blink.
  - Resend screen to user for data reentry.
- If action choice is "Continue":
  - Return to screen #3 (EME-PREP) if at the end of new data input or end of edit file after writing DTACTLØ3 file.
  - Save screen's data and clear screen for additional new data input or present additional records from old data file for editing.
- If action choice is "Exit" write DTACTLØ3 file and return to screen #3.

e. Output

DTACTLØ3 file.

f. Interfaces

Called by: EME-PREP
DSET-NPUTS

Calls to: None

g. Message Texts

- Initial 1: Select Next Action Below
- Initial 2: File Ready for Editing - Reenter Corrected Values
- Error 1: Number Of Entries May Not Exceed 99
- Error 2: Type Not Indicated - Select S, T, or U
- Error 3: Illegal Type - Select S, T, or U
- Error 4: Nomenclature Field Blank - Enter Nomenclature

2.4.6. Program Unit--DSET-BPAYR

a. Identification

Request Processor - DSET-BPAYR(6)

b. Functions

This subprogram allows the user to generate a data file of Unprogramed Unit Billpayers drawn from units on the TAEDP file. Units are classified by using one of three types of designators--UIC, TOE, or SRC. Each unit is further defined by specifying its MACOM, ALO, BR, and DAMPL values. These units are down-rated from their level of readiness by having items of equipment (LINs) transferred to units (Unprogramed Units) selected for up-rating in subprogram DSET-NPUTS.

c. Input

User input data from screen #6.
Data from DTACTLØ3 file.

d. Processing

- Check value of MSTATUS:
  - If MSTATUS = "1" clear screen for new data input.
  - If MSTATUS = "2" read data file and present old data to user for editing.
- If action choice = "Stop" return user to the main calling program - screen #1.
- Edit data read from screen:
  - Unit type (TYP) must be "S", "T", or "U".
  - Nomenclature (TYP NOMEN) must be an SRC for type "S", a TOE for type "T", or a UIC for type "U".
  - Major command (MACOM) entry must equal one of the 13 three-character codes stored in WS-MACOM-TABLE.
  - Match unit's authorized levels of organization (ALO) entry to entries in WS-ALO-TABLE for valid code.
  - Compare units Branch (BR) against Branches stored in WS-BRANCH-TABLE for valid screen entry.

- Error 9: Illegal SRC Type - Reenter SRC
- Error 10: Illegal TOE Entry - Reenter TOE
- Error 11: Code Not Indicated - Enter Unique 4-Char Set
- Error 12: No Action Entry Made - Select Only One
- Error 13: Multiple Action Entries Made - Select Only One

h. Action Choice Definitions

- Continue - It has three uses for this screen:
  - Additional blank screens are sent to the user after data on the screen passes all edit checks and is stored in NP-PARMS during file creation. Continue will keep the user within screen #5 for data input up to 99 entries. When editing an existing file, this action choice will cycle the user through several screens of data until the end of file is reached.
  - The next screen in the data set parameters sequence will be called if DP-CHOICE has a value of "1" at the end of new data input or at the end of editing data from an existing file.
  - Return the user to EME-PREP (screen #3) after completion of data input or editing if DP-CHOICE = "4". This value indicates that an individual screen was being accessed and not a series of screens.
- Exit - This action takes the user back to screen #3 without checking the status of DP-CHOICE.
- Stop - The user is returned immediately to the main (menu) screen without writing any data from the screen to the DTACTLØ2 file. The other two choices will always allow data to be written to the data file before terminating the screen.

- Mark the fields on the screen in error by making them blink.
- Resend screen to user for data reentry.

- Write data to screen's DTACTLØ2 file at the end of new unit input or end of edit data input.
- If action choice is "Continue":
  - Call "DSET-BPAYR" if DP-CHOICE = "1".
  - Return user to screen #3 (EME-PREP) if DP-CHOICE = "4".
- If action choice is "Exit" return user to screen #3 regardless of DP-CHOICE value.

e. Output

DTACTLØ2 file.

f. Interfaces

Called by: EME-PREP
DSET-ID

Calls to: DSET-BPAYR

g. Message Texts

- Initial 1: Select Next Action Below
- Initial 2: File Ready For Editing - Reenter Corrected Values
- Error 1: Number of Entries May Not Exceed 99
- Error 2: Quantity Not Indicated - Enter Quantity
- Error 3: Quantity Not Numeric - Reenter Quantity
- Error 4: Quantity Must Be Greater Than Zero
- Error 5: Type Not Indicated - Select S, T, Or U
- Error 6: Illegal Type - Select S, T, Or U
- Error 7: Nomenclature Field Blank - Enter Nomenclature
- Error 8: Illegal UIC Type - Reenter UIC

2.4.5. Program Unit--DSET-NPUTS

a. Identification

Request Processor - DSET-NPUTS(5)

b. Functions

This subprogram allows the user to generate a data file of unprogramed units based upon types of units existing in the TAEDP file. The user does this by inputting screen data specifying the type and quantity of unit desired up to a maximum of 99 entries. The prototype units are written to the data file for later use by the other E-DATE Model processors. Unprogramed units are units that have no assets but receive assets from other units designated as unprogramed billpayer units.

c. Input

User input data from screen #5.
Data from DTACTLØ2 file.

d. Processing

- Check value of MSTATUS:
  - If MSTATUS = "1" prepare screen for new data input.
  - If MSTATUS = "2" read data file and present old data to user for editing.
- If action choice = "Stop" return user to the main calling program - screen #1.
- Edit data read from screen:
  - Proto UIC must start with alphabetic followed by five nonblank fields.
  - Quantity (QY) must be greater than Ø.
  - Unit code field (CODE) must be nonblank--codes to be defined by user.
  - E-DATE must be numeric.
  - DAMPL must be numeric.
- If user input fails edit checks:
  - Move appropriate error message to MSG field.

h. Action Choice Definitions

- Continue - It has two meanings for this screen:
  - Call the next screen in the Data Set Parameters sequence if DP-CHOICE has a value of "1".
  - Return the user to EME-PREP (screen #3) if DP-CHOICE equals "4". This value indicates that an individual screen was being accessed and not a series of screens.
- Exit - This action will always take the user back to screen #3 without checking the status of DP-CHOICE.
- Stop - Stop returns the user immediately to the main (menu) screen without writing any data from the screen to the DTACTLØ1 file. The other two choices will always allow data to be written to the data file before terminating the screen.

- Call "DSET-NPUTS" if DP-CHOICE = "1".
- Return user to screen #3 (EME-PREP) if DP-CHOICE = "4".

- If action choice is "Exit":
  - Write data to screen's DTACTLØ1 file.
  - Return user to screen #3 regardless of DP-CHOICE value.

e. Output

DTACTLØ1 file

f. Interfaces

Called by: EME-PREP

Calls to: DSET-NPUTS

g. Message Texts

- Initial 1: Select Next Action Below
- Initial 2: File Ready For Editing - Reenter Corrected Values
- Error 1: Inappropriate Distribution Month - Reenter Month
- Error 2: Inappropriate Distribution Day - Reenter Day
- Error 3: Inappropriate Distribution Year - Reenter Year
- Error 4: Inappropriate Fiscal Year - Reenter Year
- Error 5: No Data Set Selection Made - Enter At Least One
- Error 6: No Identifier Associated With Flashing Data Set - Enter Identifier
- Error 7: No Action Entry Made - Select Only One
- Error 8: Identifier Not Valid Without Data Set
- Error 9: Multiple Action Entries Made - Select Only One

2.4.4. Program Unit--DSET-ID

a. Identification

Request Processor--DSET-ID(4)

b. Functions

This subprogram allows the user to select the first fiscal year within the TAEDP file for which data will be used from the TAEDP file. The user then indicates the type of unit data to be drawn from TAEDP for use by one of the other E-DATE Model processors--activated, changed, unprogramed units, converted units, or special units.

c. Input

User input data from screen #4.
Data from DTACTLØ1.

d. Processing

- If MSTATUS = "1" prepare screen for new data input.
- If MSTATUS = "2" read old data file and present to user for editing.
- If action choice = "Stop" return user to the main calling program - screen #1.
- Edit data read from screen:
  - Distribution month (MM) must be greater than ØØ and less than 13.
  - Distribution day (DD) must be greater than ØØ and cannot exceed number of days in its distribution month.
  - Distribution year (YY) must equal the current or the previous calendar year.
  - First fiscal year (YY) in the TAEDP file must equal the current or the previous calendar year.
  - One or more Data Sets must be selected along with the proper identifier being supplied by the user where called for.
- If action choice is "Continue":
  - Write data to screen's DTACTLØ1 file.

- Call "RATE-ACTYR" when DP-CHOICE = "2".
- Call "REDI-YR" when DP-CHOICE = "3".
- Call one of the screens numbered 4 through 12 when DP-CHOICE = "4".

- If action choice is "Exit" return user to main calling program.

e. Output

None.

f. Interfaces

Called by: SELCT-SCREEN.

Calls to: DSET-ID
DSET-NPUTS
DSET-BPAYR
RATE-ACTYR
RATE-MACOM
REDI-YR
REDIS-MACOM
REDI-POOL
REDI-TARAT

g. Message Texts

- Initial: Select Next Action Below
- Error 1: Missing Entry In Flashing Sector - Enter Selection
- Error 2: Multiple Entries In Flashing Sector - Select One
- Error 3: Illegal Screen Number - Reenter Number Between 4-12

h. Action Choice Definitions

- Continue - This choice will take the user to the next screen as determined by a choice of a data preparation sequence or selection of a particular screen within one of the data preparation sequences.
- Exit - "Exit" will take the user back to the main (menu) screen.

2.4.8. Program Unit--RATE-MACOM

a. Identification

Request Processor - RATE-MACOM(8)

b. Functions

This subprogram allows the user to select several or all MACOMs presented on screen #8. The File Processor will gather all units for each MACOM selected and pass them to the assessment processor so the units can be rated one MACOM at a time.

c. Input

User input data from screen #8.
MACOM choices from RP1CTLØ2 file.

d. Processing

- Clear screen for new or edit data input.
- Check value of MSTATUS:
  - If MSTATUS = "1" send blank screen to user.
  - If MSTATUS = "2" present user with prior MACOM choices from RP1CTLØ2 file.
- If action choice = "Stop" return user to the main calling program - screen #1.
- Edit data read from screen:
  - At least one MACOM must be selected.
  - The "All MACOM" choice must not be accompanied by other individual MACOM selections.
- If input fails edit checks:
  - Move appropriate error message to MSG field.
  - Mark the fields in error on the screen by making them blink.
  - Resend screen to user for data reentry.
- Write screen choices to RP1CTLØ2 file.
- Return user to EME-PREP - screen #3.

e. Output

RP1CTLØ2 file.

f. Interfaces

Called by: EME-PREP
RATE-ACTYR

Calls to: None

g. Message Texts

- Initial 1: Select Next Action Below
- Initial 2: File Ready For Editing - Reenter Corrected Value
- Error 1: Invalid MACOM Entry In Data File
- Error 2: "ALL" Selection Precludes Individual Choice - Reenter Choices
- Error 3: No MACOM Selected - Select At Least One
- Error 4: No Action Entries Made - Select Only One
- Error 5: Multiple Action Entries Made - Select Only One

h. Action Choice Definitions

- Continue - The user is returned to EME-PREP at the end of data input or file editing since this is the last screen in the rating data parameter sequence.
- Exit - This choice also returns the user to EME-PREP for the same reason given under the Continue choice. Both choices allow for the writing of screen data to the RP1CTLØ2 file before closing the screen.
- Stop - The user is returned immediately to the main (menu) screen without writing any data from the screen to the data file.

2.4.9. Program Unit--REDI-YR

a. Identification

Request Processor - REDI-YR(9)

b. Functions

This subprogram allows the user to select a single fiscal year within the TAEDP seven year planning cycle. The range of years is based upon the initial fiscal year input by the user on screen #4 and written to the DTACTLØ1 file. Units selected for this year will have their assets (LINs) redistributed. Some units will be donor units (Billpayers) while other units will acquire the equipment released by the donor units. The readiness of donor units may or may not decrease as a result of losing equipment. Units receiving the donor items should show an increase in their readiness.

c. Input

User input data from screen #9.
Redistribution fiscal year from RP1CTLØ3 file.
First fiscal year of the TAEDP data file from DTACTLØ1 file.

d. Processing

- Obtain first fiscal year from DTACTLØ1 file to set up the FY range on screen #9.
- Check value of MSTATUS:
  - If MSTATUS = "1" clear screen for new data input.
  - If MSTATUS = "2" read data file and present old redistribution FY choice to user for editing.
  - If action choice = "Stop" return user to the main calling program - screen #1.
  - Edit FY choice from screen #9.
    - User must choose one fiscal year.
    - Multiple fiscal year selections are not allowed.
  - If input fails edit criteria:
    - Move appropriate error message to MSG field.

- Mark fields in error on the screen by making them blink.
- Resend screen to user for data reentry.

- If action choice is "Continue":
  - Call "REDIS-MACOM" if DP-CHOICE = "1".
  - Return user to EME-PREP (screen #3) if DP-CHOICE = "4".
- If action choice is "Exit" return user to EME-PREP irrespective of DP-CHOICE value.

e. Output

RP1CTLØ3 file.

f. Interfaces

Called by: EME-PREP

Calls to: REDIS-MACOM

g. Message Texts

- Initial 1: Select Next Action Below
- Initial 2: File Ready For Editing - Reenter Corrected Value
- Error 1: Error In Reading File On Screen #4 For Fiscal Year
- Error 2: No From FY Selection Made - Select Only One
- Error 3: Multiple Selections Made - Select Only One
- Error 4: No Action Entries Made - Select Only One
- Error 5: Multiple Action Entries Made - Select Only One

h. Action Choice Definitions

- Continue - It has two meanings for screen #9:
  - The next screen in the Redistribution Data Parameters sequence will be called if DP-CHOICE has a value of "1".
  - Return the user to EME-PREP (screen #3) if the value of DP-CHOICE = "4". This value indicates that an individual screen was being accessed and not a series of screens.
- Exit - This action returns the user to screen #3 without checking the status of DP-CHOICE. Both "Continue" and "Exit" allow the screen's data file to be written before taking the indicated action.
- Stop - The user is returned immediately to the main (menu) screen and no data are written to the output file.

2.4.10. Program Unit--REDIS-MACOM

a. Identification

Request Processor - REDIS-MACOM(10)

b. Functions

This subprogram allows the user to select a single MACOM from among those presented on screen #10. The units within this MACOM will be candidates for upgrading their level of readiness or having their level of readiness downgraded. Units fall into one of the two categories depending upon user criteria specified on screen #11.

c. Input

User input data from screen #10.
Data from RP1CTLØ4 file.

d. Processing

- Clear the screen for user input or edit file data.
- Check value of MSTATUS:
  - If MSTATUS = "1" solicit user input.
  - If MSTATUS = "2" read data file and present previous MACOM choice to user.
- If action choice = "Stop" return user to main (menu) program - screen #1.
- Edit screen to ensure that individual selected only a single MACOM.
- If no MACOM selected or multiple selections made:
  - Move appropriate error message to MSG field.
  - Mark fields in error by making them blink on the screen.
  - Resend screen to user for data reentry.
- If action choice is "Continue":
  - Write data to RP1CTLØ4 file.
  - Call "REDI-POOL" if DP-CHOICE = "1".

- Return user to EME-PREP (screen #3) if DP-CHOICE = "4".

- If action choice = "Exit":

  - Write data to DSTCTLØ2 file.

  - Return to EME-PREP.

e. Output

RP1CTLØ4 file.

f. Interfaces

Called by: REDI-YR
EME-PREP

Calls to: REDI-POOL

g. Message Texts

- Initial 1: Select Next Action Below
- Initial 2: File Ready For Editing - Reenter Corrected Value
- Error 1: MACOM Entry Not A Valid Code
- Error 2: Multiple Selections Made - Select Only One
- Error 3: No MACOM Selected - Select At Least One
- Error 4: No Action Entries Made - Select Only One
- Error 5: Multiple Action Entries Made - Select Only One

h. Action Choice Definitions

- Continue - It has two meanings for this screen:

  - Call "REDI-POOL" if DP-CHOICE = "1".

  - Return user to EME-PREP (screen #3) if DP-CHOICE = "4". This value indicates that REDIS-MACOM was called directly by EME-PREP.

- Exit - This action returns the user to EME-PREP irrespective of the value of DP-CHOICE.

- Stop - The user is returned immediately to the main calling program and no data are written to the screen's data file.

2.4.11. Program Unit--REDI-POOL

a. Identification

Request Processor - REDI-POOL(11)

b. Functions

This subprogram enables the user to specify the characteristics of units to be uprated or downrated. The criteria are applied to units in an uprate and a downrate pool. For both pools of units, the user may specify any or all of the following criteria: Pool C-Rating, MACOM, SRC, ALO, Branch, DAMPL range, and a TGT C-Rating. The parameters are written to a data file and saved so the E-DATE Model can use them in rating the readiness of individual units.

c. Input

User input data from screen #11.
Data from DSTCTLØ1 file.

d. Processing

- Check value of MSTATUS:
  - If MSTATUS = "1" clear screen for new data input.
  - If MSTATUS = "2" read data file and present old pool data to user for editing.
  - If action choice = "Stop" return user to the main calling program - screen #1.
  - Edit data from screen:
    - If TGT C-Rating for one pool given, TGT C-Rating for the other pool need not be present.
    - If both TGT C-Ratings blank, no other values may be specified for either TGT C-Ratings.
    - If TGT C-Rating is given for either the Uprate or Downrate Pool column:
      - At least one parameter must be given for the Uprate Pool column or Downrate Pool column.
      - The only exceptions are the DAMPL values - a low and a high value must be given to form the DAMPL range.

- The Uprate Pool C-Rating must be greater than the Uprate TGT C-Rating.
- The Downrate Pool C-Rating must be less than the Downrate Pool TGT C-Rating.

- For individual parameters, the following criteria apply:
  - The values for the Pool and TGT C-Ratings must be greater than "Ø" and less than "5".
  - The MACOM entry must match one of 14 entries in WS-MACOM-TABLE.
  - The SRC must show the first five characters as numeric, the sixth character as alphabetic, and the last three as numeric.
  - The ALO entry must match one of the 16 entries in WS-ALO-TABLE.
  - The Branch must match one of the 31 entries in WS-BRANCH-TABLE.
  - A DAMPL value must be greater than "9999" and less than "60000".
  - The low DAMPL value must be less than or equal to the high DAMPL value.

- If input fails on any edit criteria:
  - Move appropriate error message to MSG field.
  - Mar' fields in error on screen by making them blink.
  - Resend screen to user for data reentry.

- If action choice is "Continue":
  - Call "REDI-TARAT" if DP-CHOICE = "1".
  - Return user to EME-PREP (screen #3) if DP-CHOICE = "4".

- If action choice is "Exit" return user to EME-PREP regardless of DP-CHOICE value.

e. Output

DSTCTLØ1 file.

f. Interfaces

Called by: REDIS-MACOM
EME-PREP

Calls to: REDI-TARAT

g. Message Texts

- Initial 1: Select Next Action Below
- Initial 2: File Ready For Editing - Reenter Corrected Value
- Error 1: Error In Pool File Data - Check File
- Error 2: Entry Not Numeric Or Blank - Enter Blinking Parameter
- Error 3: TGT C-Rating (Uprate) Requires One Uprate Parameter
- Error 4: TGT C-Rating (Downrate) Requires One Downrate Parameter
- Error 5: DAMPL-LO (Uprate) Greater Than DAMPL-HI - Adjust
- Error 6: DAMPL-LO (Downrate) Greater Than DAMPL-HI - Adjust
- Error 7: Pool C-Rating (Uprate) Must Be Greater Than TGT - Adjust
- Error 8: Pool C-Rating (Downrate) Must Be Less Than TGT - Adjust
- Error 10: Both DAMPL Values Required For Valid Entry
- Error 11: Alpha/Numeric Entry Error - Please Reenter The SRC
- Error 12: Entry Is Not Within Acceptable Range - Reenter
- Error 13: Your Entry Is Not A Valid Code - Reenter Please
- Error 14: Both TGT C-Ratings Required For Above Entries To Be Valid
- Error 15: No Action Entry Made - Select Only One
- Error 16: Multiple Action Entries Made - Select Only One

h. Action Choice Definitions

- Continue - It has two meanings for this screen:
  - Call REDI-TARAT if the value of DP-CHOICE = "1".
  - Return user to EME-PREP (screen #3) for a DP-CHOICE value of "4". This value indicates that REDI-POOL was called directly by EME-PREP.
- Exit - This action returns the user to EME-PREP without checking the value of DP-CHOICE.
- Stop - The user is returned immediately to the main calling program without writing the screen's data to the data file.

2.4.12. Program Unit--REDI-TARAT

a. Identification

Request Processor - REDI-TARAT(12)

b. Functions

This subprogram allows the user to specify individual units by UIC that will be rated for readiness. The desired C-ratings are given for each unit in one or more of the fiscal years within the TAEDP 7-year planning cycle. C-ratings for individual units given on this screen will take precedent over the Pool C-rating (screen #11) if a unit happens to be included within a pool.

c. Input

User input data from screen #12.
Data from DSTCTLØ2 file.
First fiscal year of the TAEDP data file from DTACTLØ1 file.

d. Processing

- Obtain fiscal year from DTACTLØ1 file to establish FY range on screen #12.
- Check value of MSTATUS:
  - If MSTATUS = "1" clear screen for new data input.
  - If MSTATUS = "2" read data file and present old data to user for editing.
- If action choice = "Stop" return user to the main calling program - screen #1.
- Edit data read from screen:
  - Check UIC to ensure that:
    - First character is alphabetic.
    - Characters 2 through 6 are alphabetic or numeric.
  - Check C-Ratings to ensure that:
    - Each UIC entry has at least one C-Rating.
    - Values for C-Ratings must be greater than "Ø" and less than "5".

- If user input fails edit checks:
  - Move appropriate error message to MSG field.
  - Mark fields on screen in error by making them blink.
  - Resend screen to user for data reentry.
- If action choice is "Continue":
  - Return to screen #3 (EME-PREP) if at the end of new data input or end of edit file after writing DSTCTLØ2 file.

  Else
  - Save screen's data and clear screen for additional new data input or present additional records from old data file for editing.
- If action choice is "Exit" write DSTCTLØ2 file and return to screen #3.

e. Output

DSTCTLØ2 file.

f. Interfaces

Called by: REDI-POOL
EME-PREP

Calls to: None

g. Message Texts

- Initial 1: Select Next Action Below
- Initial 2: File Ready For Editing - Reenter Corrected Values
- Error 1: Number of Entries May Not Exceed 99
- Error 2: Flashing UIC Invalid - Reenter
- Error 3: No Rating For Flashing UIC - Enter At Least One
- Error 4: Illegal Value For Flashing Entry - Reenter
- Error 5: No Entry Action Selected - Select One
- Error 6: Multiple Action Entries Made - Select Only One

h. Action Choice Definitions

- Continue - It has two meanings for this screen:
  - Additional blank screens are sent to the user after data on the screen passes all edit checks and is stored in array REDISUNI-FORMAT during file creation. Continue will keep the user within screen #12 for data input up to 99 entries. When editing on existing file, this action choice will cycle the user through several screens of data until the end of file is reached.
  - The user is returned to EME-PREP (screen #3) at the end of data input or file editing since this is the last screen in the Redistribution Data Parameters sequence.
- Exit - This choice takes the user back to EME-PREP without prompting him for more data input or presenting additional data items from DSTCTLØ? for editing.
- Stop - The user is returned immediately to the main (menu) screen without writing any data to the output file. The other two choices will always allow data to be written to the output file before terminating the screen.

2.4.13. Program Unit--EME-EXECUTE

a. Identification

Request Processor - EME-EXECUTE(13,14)

b. Functions

This subprogram has two basic functions:

- To set up runstreams which control the execution of the E-DATE Model processors.
- To stop the execution of a run.

To start a run, the user selects the type of processing desired. The choices include Data Set Generation Rating Unit Equipment, or Redistributing Unit Equipment. Data sets can be generated for converted units, unprogramed units, or other units selected by the user. Unit equipment can be rated by fiscal year or MACOM. Unit equipment may also be redistributed by fixed year and MACOM. The choice "Start Run" will then start the execution of the appropriate E-DATE Model processor.

The runstreams for the execution of the E-DATE Model processors are built from prototype runstreams. These prototypes are divided into segments using a two-character delimiter. The first character is a $ followed by an alphabetic or numeric character. Appropriate segments are assembled by the User Request Processor to meet user requirements for E-DATE Model applications. These are a total of 7 prototype runstreams. These runstreams are shown in the Computer Operation Manual, Figures III-3-2 through III-3-8 (ref. 1.2a(3)).

A run that has already been started may be halted by selecting the appropriate type of processing and selecting the operation "Stop Run". The user will be switched to screen #14 that will give him the name of the run to be stopped. He then calls the computer operator requesting that the run be terminated.

c. Input

User input data from screen #13
DTACTLØ1.
RP1CTLØ1.
RP1CTLØ2.
RP1CTLØ3.
RP1CTLØ4.
RP1TYPØ1.
RP1TYPØ2.
RP1TYPØ3.
RP1TYPØ4.
RP1TYPØ5.
RP1TYPØ6.
RP1TYPØ7.

d. Processing

- Store data from input files in Working-Storage data tables.
- Prepare screen for user input.
- If action choice = "Stop" return user to the main calling program - screen #1.
- Edit data read from screen:
  - Only one type of processing may be chosen for execution--Data Set Generator, Rating Unit Equipment, or Redistributing Unit Equipment.
  - Operation selected must be to start or stop execution of a run. User can not select both operations at the same time.
- If user input fails edit checks:
  - Move appropriate error message to MESSAGE field.
  - Move spaces to fields in error.
  - Resend screen to user for data reentry.
- If Operation = "Start Run":
  - Build a runstream for the type of processing selected. FY Range and single fiscal year input taken from screens #7 and #9 are used to select data by fiscal year for the type of processing selected by the user on screen #13.

- Start the run by generating the @START of the runstream created. This is done by issuing an Executive Request through a call to "ERACSF$" which passes the ECL @START statement to the system for run execution.
- Return user to main menu - screen #1.

- If Operation = "Stop":
  - Close screen #13.
  - Present on screen #14 the RUN ID based on data input from screen #13 by the user. The user can then call the computer operator requesting that the run be terminated.
  - Return user to the main menu screen.

e. Output

MTOE*MTO-LIB.RUN-EDATE

f. Interfaces

Called by: SELCT-SCREEN

Calls to: ERACSF$

g. Message Texts

- Initial: Select Next Action Below
- Error 1: Processing Choice Made - Select One
- Error 2: Multiple Processing Choices - Select One
- Error 3: No Operation Chosen - Select One
- Error 4: Multiple Operations Chosen - Select One
- Error 5: No Action Chosen - Select One
- Error 6: Multiple Actions Chosen - Select One
- Error 7: Starting FY Not In MTOE*RP1RTGØ1.
- Error 8: Starting MACOM Not In MTOE*RP1RTGØ2.
- Error 9: Requested FY Not In MTOE*RP1DSTØ1.
- Error 10: Requested MACOM Not In MTOE*RP1DSTØ2.

h. Action Choice Definitions

- Continue - It has two meanings within EME-EXECUTE depending on whether or not the choice is made on screen #13 or #14:
  - If the user starts a run (screen #13) this action choice returns the user to the main (menu) program.
  - If the user is terminating a run this choice will take the user to screen #14. The user is returned to the main (menu) program from screen #14.
- Stop - This action choice will take the user back to the main (menu) calling program from either screen #13 or screen #14 without taking the indicated action dictated by other choices made on the screens.

SECTION 3. ENVIRONMENT

3.1. Equipment Environment

The Request Processor is resident on the Sperry 1100/62 Timesharing Multiprocessing System at the Logistics Evaluation Agency (LEA). Off-site access to the LEA system is provided through terminal devices including the UTS 20 and associated controllers located in the ODCSLOG work area.

3.2. Support Software

The Request Processor requires the availability of the Sperry Display Processing System to enable generation of the full screen displays. In addition, the processor would require the availability of the Sperry COBOL compiler, associated libraries, and the system collector in the event that any changes to the processor code are to be made.

3.3. Data Base

A data base as such is not involved. The processor, however, does access prototype runstreams. These runstreams have been specially edited with symbols which mark off the runstream into segments. These segments are used by the processor and assembled into the appropriate order to generate the required sequence of executions of the *E-DATE Model*.

SECTION 4. PROGRAM MAINTENANCE PROCEDURES

4.1. Conventions

Certain conventions were followed in naming programs and files for the Request Processor. All the programs were named for the screens they control and can be grouped into three broad categories:

- Category 1 (Model Orientation): EME-GUIDE
- Category 2 (Model Data Preparation): EME-PREP
  - Data Set Parameters: DSET-ID, DSET-NPUTS, DSET-BPAYR
  - Rating Data Parameters: RATE-ACTYR, RATE-MACOM
  - Redistribution Data Parameters: REDI-YR, REDIS-MACOM, REDI-POOL, REDI-TARAT
- Category 3 (Model Operation): EME-EXECUTE

The main program (SELCT-SCREEN) allows the user to select one of the three categories of screens.

Data File names are eight characters in length and subdivided as follows:

1-3 Type of Category 2 parameter - DTA (Data Set), RTG (Rating Data), and DST (Redistribution Data)

4-6 Type of file (CTL - Control File)

7 Classification (0 - unclassified, 2 - confidential, 4 - secret)

8 File number within one of the areas for a Category 2 file

Data written to these files control the running of the E-DATE Model.

4.2. Verification Procedures

The only verification procedures followed are the edit checks that screen data are subject to before being written to screen data files. These edit checks are discussed under individual programs in Section 2, Program Description.

4.3. Error Conditions

- The errors that can occur while running the Request Processor are listed under individual program descriptions in Section 2. A list of all the user errors that can occur while editing or inputting data into screen files is given.

- Several screens will return an error message if an error is encountered in reading file DTACTLØ1 for the first fiscal year of the TAEDP file. DTACTLØ1 is the file for screen #4. This fiscal year is used as the starting year to set up the fiscal year range for screens 7, 9, and 12. The user must indicate the TAEDP fiscal year on screen #4 before attempting to input or edit on the other screens.

- The programs for screens 5, 6, and 12 will accept up to 99 lines of data. If the user attempts to input more than 99 entries, a message is flashed on the screen that the number of entries may not exceed 99. The first 99 entries are written to the screen's data file and the user is returned to the calling program EME-PREP (screen #3). On a read of the data files for the screens in the edit mode, more that 99 entries will also cause an error message to be generated and an exit from the screen to be made.

- Screen #13 (EME-EXECUTE) uses data input by the user into files RTGCTLØ1 (screen #7), RTGCTLØ2 (screen #8), DSTCTL01 (screen #9), and DSTCTL02 (screen #10). The data is edited and validated as being correct before written to these files. For example, screen #10 asks the user to select one MACOM of interest from those presented on the screen. These are the only valid MACOMs. The MACOM read from DSTCTL02 is revalidated on input to screen #13. An invalid MACOM will result in an error message notifying the user that an error has occurred in the data file. The execution of the appropriate E-DATE Model processor will not be started from screen #13. Normally, this situation will only occur if someone inserts an invalid data item into one of the screen files outside of normal use of the Request Processor and need not concern the user.

- All other error messages should originate from the Sperry Operating System (EXEC) and should be referred to the resident Sperry system personnel.

4.4. Special Maintenance Procedures

- Executive Control Language (ECL). The ECL to run the User Request Processor is shown in the Computer Operation Manual, Figure III-3-1 (ref. 1.2a(3)). To start the Processor refer to the @ADD command shown in the User's Manual, paragraph 3-3 (ref. 1.2a(2))

- Compile and Mapping Procedures. All the programs for the Request Processor are written in Sperry ASCII COBOL. Figure IV-4-1 shows the compile statement for the programs. The operations are as defined in the Sperry COBOL manual. Every program, except SELCT-SCREEN, is compiled using the V-option. This option indicates that the program being compiled is a subprogram being called by the main program or another subprogram. The ECL statements to the Request Processor are given in Figure IV-4-2. The name of the file is MTOE*RP1PRG00.MAP-RP1.

4.5. Special Maintenance Programs

The Request Processor consists solely of the 13 programs that manipulate the input by the user on the various screens of the processor. No maintenance programs are involved.

4.6. Listings

The program listings for the Request Processor may be generated from the LEA production library. This library contains all the symbolic, relocatable, and absolute elements as well as the runstreams necessary to execute the Request Processor.

```
@ACOB, options    FILE    .    ELEMENT
@(TO PROMPT COMPILER)
```

Figure IV-4-1. Compiler Call Statement

```
@ MAP,E, MTOE*MTO-LIB.MAP-RP1
IN   MTOE*MTO-LIB.SELCT-SCREEN
IN   MTOE*MTO-LIB.EME-PREP
IN   MTOE*MTO-LIB.EME-PRSYSDTA
IN   MTOE*MTO-LIB.DSET-ID
IN   MTOE*MTO-LIB.DSET-ISYSDTA
IN   MTOE*MTO-LIB.DSET-NPUTS
IN   MTOE*MTO-LIB.DSET-NSYSDA
IN   MTOE*MTO-LIB.DSET-BPAYR
IN   MTOE*MTO-LIB.DSET-BSYSDTA
IN   MTOE*MTO-LIB.EME-GUIDE
IN   MTOE*MTO-LIB.EME-GUSYSDTA
IN   MTOE*MTO-LIB.RATE-ACTYR
IN   MTOE*MTO-LIB.RATE-ASYSDTA
IN   MTOE*MTO-LIB.RATE-MACOM
IN   MTOE*MTO-LIB.RATE-MSYSDTA
IN   MTOE*MTO-LIB.REDI-YR
IN   MTOE*MTO-LIB.REDI-YSYSDTA
IN   MTOE*MTO-LIB.REDI-POOL
IN   MTOE*MTO-LIB.REDI-PSYSDTA
IN   MTOE*MTO-LIB.REDI-TARAT
IN   MTOE*MTO-LIB.REDI-TSYSDTA
IN   MTOE*MTO-LIB.REDIS-MACOM
IN   MTOE*MTO-LIB.REDIS-SYSDTA
IN   MTOE*MTO-LIB.EME-EXECUTE
IN   MTOE*MTO-LIB.EME-EXSYSDTA
LIB  LIB$*DPS-1R3.

END
```

Figure IV-4-2. Mapping Procedure

APPENDIX A

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GLOSSARY

ALO	authorized level of organization
AR	Army regulation
BR	branch of service
CAA	US Army Concepts Analysis Agency
C-rating	readiness measure (AR 220-1)
C-level	interchangeable with C-rating
CSR	Chief of Staff Regulation
CTU	Consolidated Table of Organization Update
DA	Department of the Army
DAMPL	Department of Army Master Priority List
DESCOM	US Army Depot System Command
DPS	Display Processing System (on Sperry computer)
ECL	Executive Control Language (on Sperry computer)
E-DATE	Effective Date (model)
ID	identification
ILD	Integtral Load Device (on Sperry computer)
LEA	US Army Logistics Evaluation Agency
MACOM	major Army command
MTOE*MTO-LIB	library file at LEA
ODCSLOG	Office of the Deputy Chief of Staff for Logistics
ODCSOPS	Office of the Deputy Chief of Staff for Operations and Plans
POOL	particular group of units

SRC	standard requirements code
SSG	Symbolic Stream Generator (on Sperry computer)
TAEDP	Total Army Equipment Distribution Program
UIC	unit identification code
UPU	unprogramed units

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